



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 operations.

I. Source Location Information

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

Project Name: FAP 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
11586 to 12000 159th Street

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.60063 Longitude: -87.90388
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 351 (U.S. 6/IL 7)Latitude: 41.60063 Longitude: -87.90388Uncontaminated 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 846D-118-B01, -B03 THRU -B05, AND -B07 THRU -B09 WERE SAMPLED ADJACENT TO SITE No. 846D-118. SEE FIGURES 2 & 3 AND TABLE 3a OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59745-1

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

I, Steven Gobelman (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 22.51 a] 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.

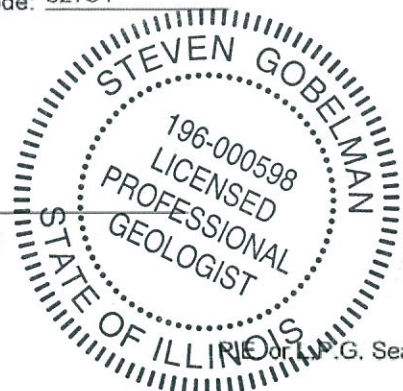
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date:

9/20/14

E or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-118

Wooded Area and Residential

Sample ID	846D-118-B01	846D-118-B03	846D-118-B04				
Sample Depth (ft)	0-2	0-2	0-2				
Sample Date	7/24/2013	7/24/2013	7/24/2013				
PID	0	0	0				
Sample pH	8.29	8.98	8.04				
Matrix	Soil	Soil	Soil				
Semivolatile Organic Compounds (mg/kg)							
Benzo(a)pyrene	J 0.011	J 0.011	ND	0.09	0.09	0.98	1.3
							2.1
							2.1
							NA

Sample ID	846D-118-B05-1	846D-118-B05-1 DUP	846D-118-B05-2				
Sample Depth (ft)	0-4	0-4	4-8				
Sample Date	7/24/2013	7/24/2013	7/24/2013				
PID	0	0	0				
Sample pH	8.5	8.51	8.15				
Matrix	Soil	Soil	Soil				
Semivolatile Organic Compounds (mg/kg)							
Benzo(a)pyrene	J 0.036	J 0.0099	ND	0.09	0.09	0.98	1.3
							2.1
							2.1
							NA

Sample ID	846D-118-B07	846D-118-B08	846D-118-B09				
Sample Depth (ft)	0-2	0-2	0-2				
Sample Date	7/24/2013	7/24/2013	7/24/2013				
PID	0	0	0				
Sample pH	8.8	8.54	8.74				
Matrix	Soil	Soil	Soil				
Semivolatile Organic Compounds (mg/kg)							
Benzo(a)pyrene	ND	0.14	1.2	0.09	0.09	0.98	1.3
							2.1
							2.1
							NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59745-1
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/20/2013 1:27:15 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

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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 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B01

Lab Sample ID: 500-59745-1

Date Collected: 07/24/13 15:20

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 80.8

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	☼	07/24/13 15:20	07/30/13 22:43	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	07/24/13 15:20	07/30/13 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/24/13 15:20	07/30/13 22:43	1
Dibromofluoromethane	99		75 - 120	07/24/13 15:20	07/30/13 22:43	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	07/24/13 15:20	07/30/13 22:43	1
Toluene-d8 (Surr)	95		75 - 122	07/24/13 15:20	07/30/13 22:43	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	☼	07/31/13 07:20	08/03/13 06:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B01

Lab Sample ID: 500-59745-1

Date Collected: 07/24/13 15:20

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Diethyl phthalate	<0.20	*	0.20	0.067	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Benzo[a]anthracene	0.0087	J	0.040	0.0084	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B01

Lab Sample ID: 500-59745-1

Date Collected: 07/24/13 15:20

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.040	0.0090	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Benzo[b]fluoranthene	0.012	J	0.040	0.0078	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Benzo[a]pyrene	0.011	J	0.040	0.0073	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	07/31/13 07:20	08/03/13 06:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		30 - 110				07/31/13 07:20	08/03/13 06:52	1
Phenol-d5	94		31 - 110				07/31/13 07:20	08/03/13 06:52	1
Nitrobenzene-d5	89		30 - 115				07/31/13 07:20	08/03/13 06:52	1
2-Fluorobiphenyl	86		30 - 119				07/31/13 07:20	08/03/13 06:52	1
2,4,6-Tribromophenol	100		35 - 137				07/31/13 07:20	08/03/13 06:52	1
Terphenyl-d14	72		36 - 134				07/31/13 07:20	08/03/13 06:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Arsenic	9.3		0.56	0.11	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Barium	62		0.56	0.060	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Beryllium	0.77		0.22	0.020	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Boron	3.2		2.8	0.12	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Cadmium	0.49	J B	0.11	0.014	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Calcium	3300	B	11	3.0	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Chromium	19		0.56	0.065	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Cobalt	16		0.28	0.020	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Copper	27	B	0.56	0.050	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Iron	24000	B	11	4.6	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Lead	20		0.28	0.084	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Magnesium	4300	B	5.6	1.2	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Manganese	310	B	0.56	0.031	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Nickel	27	B	0.56	0.055	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Potassium	1300		28	1.7	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Selenium	0.46	J	0.56	0.20	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Sodium	890		56	7.5	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Thallium	0.45	J	0.56	0.24	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Vanadium	21		0.28	0.042	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1
Zinc	55	B	1.1	0.23	mg/Kg	☼	07/25/13 12:48	08/03/13 22:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/15/13 13:30	08/20/13 03:36	1
Chromium	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 03:36	1
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 03:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B01

Lab Sample ID: 500-59745-1

Date Collected: 07/24/13 15:20

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 03:36	1
Manganese	0.72		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 03:36	1
Nickel	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 03:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.72	B	0.50	0.010	mg/L		07/29/13 12:00	08/05/13 23:53	1
Beryllium	0.0098		0.0040	0.0040	mg/L		07/29/13 12:00	08/05/13 23:53	1
Boron	0.16		0.10	0.050	mg/L		07/29/13 12:00	08/05/13 23:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/05/13 23:53	1
Chromium	0.19		0.025	0.010	mg/L		07/29/13 12:00	08/05/13 23:53	1
Cobalt	0.055		0.025	0.0050	mg/L		07/29/13 12:00	08/05/13 23:53	1
Iron	210		0.20	0.20	mg/L		07/29/13 12:00	08/05/13 23:53	1
Lead	0.10		0.0075	0.0050	mg/L		07/29/13 12:00	08/05/13 23:53	1
Manganese	0.66		0.025	0.010	mg/L		07/29/13 12:00	08/05/13 23:53	1
Nickel	0.27		0.025	0.010	mg/L		07/29/13 12:00	08/05/13 23:53	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/05/13 23:53	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/05/13 23:53	1
Zinc	0.55	B	0.10	0.020	mg/L		07/29/13 12:00	08/05/13 23:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:00	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 17:52	1
Thallium	0.0045		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 13:59	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00035	B	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 12:01	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.019	0.0090	mg/Kg	☼	07/25/13 17:00	07/26/13 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.29		0.200	0.200	SU			08/04/13 18:06	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B03

Lab Sample ID: 500-59745-4

Date Collected: 07/24/13 15:05

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Bromoform	<0.0042		0.0042	0.00097	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Carbon tetrachloride	<0.0042		0.0042	0.00077	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
1,1-Dichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	07/24/13 15:05	07/30/13 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	07/24/13 15:05	07/30/13 23:51	1
Dibromofluoromethane	93		75 - 120	07/24/13 15:05	07/30/13 23:51	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	07/24/13 15:05	07/30/13 23:51	1
Toluene-d8 (Surr)	94		75 - 122	07/24/13 15:05	07/30/13 23:51	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	☼	08/04/13 20:28	08/07/13 21:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B03

Lab Sample ID: 500-59745-4

Date Collected: 07/24/13 15:05

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
2,4-Dimethylphenol	<0.38	*	0.38	0.12	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
2,4-Dinitrophenol	<0.77	*	0.77	0.20	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
4-Bromophenyl phenyl ether	<0.19	*	0.19	0.043	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Diethyl phthalate	<0.19	*	0.19	0.064	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Carbazole	<0.19	*	0.19	0.054	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B03

Lab Sample ID: 500-59745-4

Date Collected: 07/24/13 15:05

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.038	0.0086	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Benzo[b]fluoranthene	0.015	J	0.038	0.0074	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Benzo[a]pyrene	0.011	J	0.038	0.0070	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/04/13 20:28	08/07/13 21:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		30 - 110				08/04/13 20:28	08/07/13 21:17	1
Phenol-d5	56		31 - 110				08/04/13 20:28	08/07/13 21:17	1
Nitrobenzene-d5	49		30 - 115				08/04/13 20:28	08/07/13 21:17	1
2-Fluorobiphenyl	63		30 - 119				08/04/13 20:28	08/07/13 21:17	1
2,4,6-Tribromophenol	71		35 - 137				08/04/13 20:28	08/07/13 21:17	1
Terphenyl-d14	78		36 - 134				08/04/13 20:28	08/07/13 21:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Arsenic	4.8		0.57	0.11	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Barium	50		0.57	0.061	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Beryllium	0.52		0.23	0.020	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Boron	5.1		2.9	0.12	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Cadmium	0.65	J B	0.11	0.015	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Calcium	52000	B	11	3.1	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Chromium	15		0.57	0.067	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Cobalt	6.9		0.29	0.020	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Copper	21	B	0.57	0.051	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Iron	17000	B	11	4.7	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Lead	11		0.29	0.085	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Magnesium	27000	B	5.7	1.2	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Manganese	330	B	0.57	0.031	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Nickel	19	B	0.57	0.056	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Potassium	1600		29	1.7	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Sodium	1200		57	7.7	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Thallium	0.31	J	0.57	0.24	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Vanadium	14		0.29	0.042	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1
Zinc	40	B	1.1	0.23	mg/Kg	☼	07/25/13 12:48	08/03/13 23:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 04:28	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 04:28	1
Manganese	1.0		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 04:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B03

Lab Sample ID: 500-59745-4

Date Collected: 07/24/13 15:05

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.62	B	0.50	0.010	mg/L		07/29/13 12:00	08/06/13 00:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 00:29	1
Boron	0.66		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 00:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 00:29	1
Chromium	0.066		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:29	1
Cobalt	0.017	J	0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 00:29	1
Iron	63		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 00:29	1
Lead	0.039		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 00:29	1
Manganese	0.28		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:29	1
Nickel	0.065		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:29	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 00:29	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 00:29	1
Zinc	0.43	B	0.10	0.020	mg/L		07/29/13 12:00	08/06/13 00:29	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 18:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:04	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000089	J B	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 12:07	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.0089	mg/Kg	☆	07/25/13 17:00	07/26/13 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.98		0.200	0.200	SU			08/04/13 18:16	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B04

Lab Sample ID: 500-59745-5

Date Collected: 07/24/13 14:55

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 85.2

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	☼	07/24/13 14:55	07/31/13 00:14	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00072	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00080	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00061	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	07/24/13 14:55	07/31/13 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	07/24/13 14:55	07/31/13 00:14	1
Dibromofluoromethane	96		75 - 120	07/24/13 14:55	07/31/13 00:14	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	07/24/13 14:55	07/31/13 00:14	1
Toluene-d8 (Surr)	97		75 - 122	07/24/13 14:55	07/31/13 00:14	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	☼	07/31/13 07:20	08/03/13 08:50	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B04

Lab Sample ID: 500-59745-5

Date Collected: 07/24/13 14:55

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
2,4-Dichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
2,4,6-Trichlorophenol	<0.38		0.38	0.047	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
4-Nitroaniline	<0.38		0.38	0.077	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Diethyl phthalate	<0.19	*	0.19	0.063	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Fluoranthene	<0.038		0.038	0.015	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Benzo[a]anthracene	0.0080	J	0.038	0.0079	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B04

Lab Sample ID: 500-59745-5

Date Collected: 07/24/13 14:55

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.0095	J	0.038	0.0085	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Benzo[b]fluoranthene	0.012	J	0.038	0.0073	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	07/31/13 07:20	08/03/13 08:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		30 - 110				07/31/13 07:20	08/03/13 08:50	1
Phenol-d5	81		31 - 110				07/31/13 07:20	08/03/13 08:50	1
Nitrobenzene-d5	78		30 - 115				07/31/13 07:20	08/03/13 08:50	1
2-Fluorobiphenyl	83		30 - 119				07/31/13 07:20	08/03/13 08:50	1
2,4,6-Tribromophenol	84		35 - 137				07/31/13 07:20	08/03/13 08:50	1
Terphenyl-d14	80		36 - 134				07/31/13 07:20	08/03/13 08:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Arsenic	10		0.55	0.11	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Barium	56		0.55	0.058	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Beryllium	0.64		0.22	0.019	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Boron	3.5		2.7	0.11	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Cadmium	0.78	J B	0.11	0.014	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Calcium	16000	B	11	3.0	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Chromium	16		0.55	0.063	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Cobalt	12		0.27	0.019	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Copper	26	B	0.55	0.048	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Iron	22000	B	11	4.5	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Lead	28		0.27	0.081	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Magnesium	12000	B	5.5	1.1	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Manganese	460	B	0.55	0.030	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Nickel	27	B	0.55	0.054	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Potassium	1300		27	1.6	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Sodium	1300		55	7.3	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Thallium	0.40	J	0.55	0.23	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Vanadium	18		0.27	0.040	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1
Zinc	64	B	1.1	0.22	mg/Kg	☼	07/25/13 12:48	08/03/13 23:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/15/13 13:30	08/20/13 04:35	1
Chromium	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 04:35	1
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 04:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B04

Lab Sample ID: 500-59745-5

Date Collected: 07/24/13 14:55

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 04:35	1
Manganese	0.66		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 04:35	1
Nickel	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 04:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64	B	0.50	0.010	mg/L		07/29/13 12:00	08/06/13 00:33	1
Beryllium	0.0049		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 00:33	1
Boron	0.47		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 00:33	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 00:33	1
Chromium	0.12		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:33	1
Cobalt	0.037		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 00:33	1
Iron	130		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 00:33	1
Lead	0.11		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 00:33	1
Manganese	0.52		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:33	1
Nickel	0.16		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:33	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 00:33	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 00:33	1
Zinc	0.60	B	0.10	0.020	mg/L		07/29/13 12:00	08/06/13 00:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:04	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 18:19	1
Thallium	0.0029		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:05	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J B	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 12:17	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0091	mg/Kg	☼	07/25/13 17:00	07/26/13 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.04		0.200	0.200	SU			08/04/13 18:19	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B05-1

Lab Sample ID: 500-59745-6

Date Collected: 07/24/13 14:40

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014		0.0050	0.0021	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Carbon disulfide	<0.0050		0.0050	0.00074	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Carbon tetrachloride	<0.0050		0.0050	0.00090	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Chlorobenzene	<0.0050		0.0050	0.00050	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Dibromochloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
1,2-Dichloropropane	<0.0050		0.0050	0.00075	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00068	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Vinyl acetate	<0.0050		0.0050	0.00078	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	07/24/13 14:40	07/31/13 00:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	07/24/13 14:40	07/31/13 00:37	1
Dibromofluoromethane	98		75 - 120	07/24/13 14:40	07/31/13 00:37	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/24/13 14:40	07/31/13 00:37	1
Toluene-d8 (Surr)	95		75 - 122	07/24/13 14:40	07/31/13 00:37	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	☼	07/31/13 07:20	08/03/13 09:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B05-1

Lab Sample ID: 500-59745-6

Date Collected: 07/24/13 14:40

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.052	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Diethyl phthalate	<0.20	*	0.20	0.068	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.099	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Anthracene	<0.040		0.040	0.0096	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Fluoranthene	0.034	J	0.040	0.017	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Pyrene	0.029	J	0.040	0.015	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Benzo[a]anthracene	0.029	J	0.040	0.0085	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B05-1

Lab Sample ID: 500-59745-6

Date Collected: 07/24/13 14:40

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.041		0.040	0.0092	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Benzo[b]fluoranthene	0.045		0.040	0.0079	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Benzo[k]fluoranthene	0.020 J		0.040	0.0097	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Benzo[a]pyrene	0.036 J		0.040	0.0074	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Indeno[1,2,3-cd]pyrene	0.025 J		0.040	0.014	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Benzo[g,h,i]perylene	0.025 J		0.040	0.014	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	07/31/13 07:20	08/03/13 09:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		30 - 110				07/31/13 07:20	08/03/13 09:14	1
Phenol-d5	74		31 - 110				07/31/13 07:20	08/03/13 09:14	1
Nitrobenzene-d5	67		30 - 115				07/31/13 07:20	08/03/13 09:14	1
2-Fluorobiphenyl	71		30 - 119				07/31/13 07:20	08/03/13 09:14	1
2,4,6-Tribromophenol	82		35 - 137				07/31/13 07:20	08/03/13 09:14	1
Terphenyl-d14	73		36 - 134				07/31/13 07:20	08/03/13 09:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Arsenic	7.8		0.59	0.12	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Barium	79		0.59	0.063	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Beryllium	0.74		0.24	0.021	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Boron	3.7		2.9	0.12	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Cadmium	0.66 J B		0.12	0.015	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Calcium	7500 B		12	3.2	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Chromium	16		0.59	0.068	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Cobalt	10		0.29	0.021	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Copper	23 B		0.59	0.052	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Iron	21000 B		12	4.8	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Lead	49		0.29	0.088	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Magnesium	5800 B		5.9	1.2	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Manganese	380 B		0.59	0.032	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Nickel	23 B		0.59	0.058	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Potassium	1500		29	1.8	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Selenium	0.48 J		0.59	0.21	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Sodium	2500		59	7.9	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Thallium	0.40 J		0.59	0.25	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Vanadium	21		0.29	0.044	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1
Zinc	69 B		1.2	0.24	mg/Kg	☼	07/25/13 12:48	08/03/13 23:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/15/13 13:30	08/20/13 04:41	1
Chromium	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 04:41	1
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 04:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B05-1

Lab Sample ID: 500-59745-6

Date Collected: 07/24/13 14:40

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.018		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 04:41	1
Manganese	3.5		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 04:41	1
Nickel	0.019	J	0.025	0.010	mg/L		08/15/13 13:30	08/20/13 04:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.3	B	0.50	0.010	mg/L		07/29/13 12:00	08/06/13 00:37	1
Beryllium	0.0085		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 00:37	1
Boron	0.66		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 00:37	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 00:37	1
Chromium	0.21		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:37	1
Cobalt	0.099		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 00:37	1
Iron	250		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 00:37	1
Lead	0.25		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 00:37	1
Manganese	2.4		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:37	1
Nickel	0.30		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:37	1
Selenium	0.013	J	0.050	0.010	mg/L		07/29/13 12:00	08/06/13 00:37	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 00:37	1
Zinc	0.99	B	0.10	0.020	mg/L		07/29/13 12:00	08/06/13 00:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:05	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 18:31	1
Thallium	0.0040		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:08	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00038	B	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 12:19	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.018	0.0084	mg/Kg	☼	07/25/13 17:00	07/26/13 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.50		0.200	0.200	SU			08/04/13 18:21	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B05-1 Dup

Lab Sample ID: 500-59745-7

Date Collected: 07/24/13 14:45

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0041	J	0.0045	0.0019	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	07/24/13 14:45	07/31/13 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/24/13 14:45	07/31/13 01:00	1
Dibromofluoromethane	96		75 - 120	07/24/13 14:45	07/31/13 01:00	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	07/24/13 14:45	07/31/13 01:00	1
Toluene-d8 (Surr)	98		75 - 122	07/24/13 14:45	07/31/13 01:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B05-1 Dup

Lab Sample ID: 500-59745-7

Date Collected: 07/24/13 14:45

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Diethyl phthalate	<0.20	*	0.20	0.067	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Benzo[a]anthracene	0.011	J	0.040	0.0084	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B05-1 Dup

Lab Sample ID: 500-59745-7

Date Collected: 07/24/13 14:45

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.040	0.0091	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Benzo[b]fluoranthene	0.013	J	0.040	0.0078	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Benzo[a]pyrene	0.0099	J	0.040	0.0073	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	07/31/13 07:20	08/03/13 09:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		30 - 110				07/31/13 07:20	08/03/13 09:37	1
Phenol-d5	80		31 - 110				07/31/13 07:20	08/03/13 09:37	1
Nitrobenzene-d5	67		30 - 115				07/31/13 07:20	08/03/13 09:37	1
2-Fluorobiphenyl	71		30 - 119				07/31/13 07:20	08/03/13 09:37	1
2,4,6-Tribromophenol	83		35 - 137				07/31/13 07:20	08/03/13 09:37	1
Terphenyl-d14	71		36 - 134				07/31/13 07:20	08/03/13 09:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Arsenic	10		0.56	0.11	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Barium	35		0.56	0.060	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Beryllium	0.56		0.22	0.020	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Boron	5.8		2.8	0.12	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Cadmium	0.82	J B	0.11	0.014	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Calcium	39000	B	11	3.0	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Chromium	15		0.56	0.065	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Cobalt	10		0.28	0.020	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Copper	25	B	0.56	0.050	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Iron	21000	B	11	4.6	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Lead	16		0.28	0.084	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Magnesium	22000	B	5.6	1.2	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Manganese	420	B	0.56	0.030	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Nickel	26	B	0.56	0.055	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Potassium	1800		28	1.7	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Sodium	1500		56	7.5	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Thallium	0.43	J	0.56	0.24	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Vanadium	17		0.28	0.042	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1
Zinc	53	B	1.1	0.23	mg/Kg	☼	07/25/13 12:48	08/03/13 23:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/15/13 13:30	08/20/13 04:47	1
Chromium	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 04:47	1
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 04:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B05-1 Dup

Lab Sample ID: 500-59745-7

Date Collected: 07/24/13 14:45

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 04:47	1
Manganese	1.2		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 04:47	1
Nickel	0.011	J	0.025	0.010	mg/L		08/15/13 13:30	08/20/13 04:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.87	B	0.50	0.010	mg/L		07/29/13 12:00	08/06/13 00:41	1
Beryllium	0.0061		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 00:41	1
Boron	0.49		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 00:41	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 00:41	1
Chromium	0.15		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:41	1
Cobalt	0.057		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 00:41	1
Iron	180		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 00:41	1
Lead	0.21		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 00:41	1
Manganese	1.2		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:41	1
Nickel	0.20		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:41	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 00:41	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 00:41	1
Zinc	0.73	B	0.10	0.020	mg/L		07/29/13 12:00	08/06/13 00:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:06	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 18:34	1
Thallium	0.0034		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:09	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00030	B	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 12:21	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0091	mg/Kg	☼	07/25/13 17:00	07/26/13 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.51		0.200	0.200	SU			08/04/13 18:24	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B05-2

Lab Sample ID: 500-59745-8

Date Collected: 07/24/13 14:50

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0092		0.0040	0.0017	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Bromodichloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Bromoform	<0.0040		0.0040	0.00093	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
2-Butanone (MEK)	<0.0040		0.0040	0.0015	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Carbon tetrachloride	<0.0040		0.0040	0.00074	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Chloromethane	<0.0040		0.0040	0.00085	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
1,1-Dichloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
1,1-Dichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Ethylbenzene	<0.0040		0.0040	0.00082	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0011	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00067	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Tetrachloroethene	<0.0040		0.0040	0.00062	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Toluene	<0.0040		0.0040	0.00057	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00056	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Trichloroethene	<0.0040		0.0040	0.00067	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Vinyl chloride	<0.0040		0.0040	0.00085	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg	☼	07/24/13 14:50	07/31/13 01:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	07/24/13 14:50	07/31/13 01:23	1
Dibromofluoromethane	94		75 - 120	07/24/13 14:50	07/31/13 01:23	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	07/24/13 14:50	07/31/13 01:23	1
Toluene-d8 (Surr)	94		75 - 122	07/24/13 14:50	07/31/13 01:23	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	☼	07/31/13 07:20	08/05/13 21:57	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B05-2

Lab Sample ID: 500-59745-8

Date Collected: 07/24/13 14:50

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
2,4-Dimethylphenol	<0.40		0.40	0.12	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
2-Nitrophenol	<0.40		0.40	0.062	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Acenaphthylene	<0.040		0.040	0.0091	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Fluorene	<0.040		0.040	0.0090	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Diethyl phthalate	<0.20	*	0.20	0.066	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Benzo[a]anthracene	<0.040		0.040	0.0083	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B05-2

Lab Sample ID: 500-59745-8

Date Collected: 07/24/13 14:50

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Benzo[b]fluoranthene	<0.040		0.040	0.0077	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Benzo[a]pyrene	<0.040		0.040	0.0072	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	07/31/13 07:20	08/05/13 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		30 - 110				07/31/13 07:20	08/05/13 21:57	1
Phenol-d5	84		31 - 110				07/31/13 07:20	08/05/13 21:57	1
Nitrobenzene-d5	77		30 - 115				07/31/13 07:20	08/05/13 21:57	1
2-Fluorobiphenyl	79		30 - 119				07/31/13 07:20	08/05/13 21:57	1
2,4,6-Tribromophenol	96		35 - 137				07/31/13 07:20	08/05/13 21:57	1
Terphenyl-d14	72		36 - 134				07/31/13 07:20	08/05/13 21:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Arsenic	10		0.60	0.12	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Barium	50		0.60	0.064	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Beryllium	0.61		0.24	0.021	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Boron	4.9		3.0	0.13	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Cadmium	0.71	J B	0.12	0.015	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Calcium	27000	B	12	3.2	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Chromium	16		0.60	0.069	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Cobalt	12		0.30	0.021	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Copper	25	B	0.60	0.053	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Iron	22000	B	12	4.9	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Lead	15		0.30	0.089	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Magnesium	19000	B	6.0	1.2	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Manganese	490	B	0.60	0.032	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Nickel	31	B	0.60	0.059	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Potassium	1700		30	1.8	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Sodium	1500		60	8.0	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Thallium	0.38	J	0.60	0.25	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Vanadium	17		0.30	0.044	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1
Zinc	54	B	1.2	0.24	mg/Kg	☼	07/25/13 12:48	08/04/13 00:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/15/13 13:30	08/20/13 04:53	1
Chromium	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 04:53	1
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 04:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B05-2

Lab Sample ID: 500-59745-8

Date Collected: 07/24/13 14:50

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 04:53	1
Manganese	1.2		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 04:53	1
Nickel	0.015	J	0.025	0.010	mg/L		08/15/13 13:30	08/20/13 04:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.93	B	0.50	0.010	mg/L		07/29/13 12:00	08/06/13 00:46	1
Beryllium	0.0071		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 00:46	1
Boron	0.67		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 00:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 00:46	1
Chromium	0.15		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:46	1
Cobalt	0.051		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 00:46	1
Iron	180		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 00:46	1
Lead	0.083		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 00:46	1
Manganese	0.98		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:46	1
Nickel	0.24		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:46	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 00:46	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 00:46	1
Zinc	0.76	B	0.10	0.020	mg/L		07/29/13 12:00	08/06/13 00:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:08	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 18:38	1
Thallium	0.0048		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:10	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00023	B	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 12:23	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.020	0.0092	mg/Kg	☼	07/25/13 17:00	07/26/13 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.15		0.200	0.200	SU			08/04/13 18:26	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B07

Lab Sample ID: 500-59745-10

Date Collected: 07/24/13 14:20

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	07/24/13 14:20	07/31/13 02:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	07/24/13 14:20	07/31/13 02:08	1
Dibromofluoromethane	94		75 - 120	07/24/13 14:20	07/31/13 02:08	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	07/24/13 14:20	07/31/13 02:08	1
Toluene-d8 (Surr)	96		75 - 122	07/24/13 14:20	07/31/13 02:08	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	☼	07/31/13 07:20	08/05/13 22:45	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B07

Lab Sample ID: 500-59745-10

Date Collected: 07/24/13 14:20

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Hexachlorobenzene	<0.075		0.075	0.0074	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Diethyl phthalate	<0.19	*	0.19	0.062	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B07

Lab Sample ID: 500-59745-10

Date Collected: 07/24/13 14:20

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	07/31/13 07:20	08/05/13 22:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		30 - 110				07/31/13 07:20	08/05/13 22:45	1
Phenol-d5	93		31 - 110				07/31/13 07:20	08/05/13 22:45	1
Nitrobenzene-d5	85		30 - 115				07/31/13 07:20	08/05/13 22:45	1
2-Fluorobiphenyl	90		30 - 119				07/31/13 07:20	08/05/13 22:45	1
2,4,6-Tribromophenol	103		35 - 137				07/31/13 07:20	08/05/13 22:45	1
Terphenyl-d14	78		36 - 134				07/31/13 07:20	08/05/13 22:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Arsenic	8.6		0.56	0.11	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Barium	28		0.56	0.059	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Beryllium	0.54		0.22	0.020	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Boron	4.8		2.8	0.12	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Cadmium	0.67	J B	0.11	0.014	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Calcium	28000	B	11	3.0	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Chromium	14		0.56	0.064	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Cobalt	7.8		0.28	0.020	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Copper	21	B	0.56	0.049	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Iron	19000	B	11	4.6	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Lead	13		0.28	0.083	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Magnesium	19000	B	5.6	1.1	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Manganese	260	B	0.56	0.030	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Nickel	20	B	0.56	0.055	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Potassium	1500		28	1.7	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Sodium	1900		56	7.4	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Thallium	0.56		0.56	0.23	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Vanadium	16		0.28	0.041	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1
Zinc	56	B	1.1	0.22	mg/Kg	☼	07/25/13 12:48	08/04/13 00:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 05:06	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 05:06	1
Manganese	0.70		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 05:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B07

Lab Sample ID: 500-59745-10

Date Collected: 07/24/13 14:20

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 05:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60	B	0.50	0.010	mg/L		07/29/13 12:00	08/06/13 00:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 00:56	1
Boron	0.62		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 00:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 00:56	1
Chromium	0.098		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:56	1
Cobalt	0.028		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 00:56	1
Iron	130		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 00:56	1
Lead	0.079		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 00:56	1
Manganese	0.43		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:56	1
Nickel	0.11		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 00:56	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 00:56	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 00:56	1
Zinc	0.60	B	0.10	0.020	mg/L		07/29/13 12:00	08/06/13 00:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:10	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 18:46	1
Thallium	0.0033		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:11	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00021	B	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 12:27	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0083	mg/Kg	☼	07/25/13 17:00	07/26/13 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.80		0.200	0.200	SU			08/04/13 18:31	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B08

Lab Sample ID: 500-59745-11

Date Collected: 07/24/13 14:10

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0047		0.0043	0.0018	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Benzene	<0.0043		0.0043	0.00058	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Bromoform	<0.0043		0.0043	0.00098	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Chlorobenzene	<0.0043		0.0043	0.00043	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Chloromethane	<0.0043		0.0043	0.00089	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Dibromochloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
1,1-Dichloroethane	<0.0043		0.0043	0.00067	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
1,1-Dichloroethene	<0.0043		0.0043	0.00069	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Ethylbenzene	<0.0043		0.0043	0.00086	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Methylene Chloride	<0.0043		0.0043	0.0011	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00070	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00086	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Tetrachloroethene	<0.0043		0.0043	0.00065	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00076	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Trichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Vinyl acetate	<0.0043		0.0043	0.00067	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Vinyl chloride	<0.0043		0.0043	0.00089	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1
Xylenes, Total	<0.0085		0.0085	0.00039	mg/Kg	☼	07/24/13 14:10	07/31/13 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	07/24/13 14:10	07/31/13 02:31	1
Dibromofluoromethane	97		75 - 120	07/24/13 14:10	07/31/13 02:31	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/24/13 14:10	07/31/13 02:31	1
Toluene-d8 (Surr)	97		75 - 122	07/24/13 14:10	07/31/13 02:31	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	☼	07/31/13 07:20	08/06/13 01:54	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B08

Lab Sample ID: 500-59745-11

Date Collected: 07/24/13 14:10

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Hexachlorocyclopentadiene	<0.72		0.72	0.17	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Acenaphthylene	<0.036		0.036	0.0082	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Hexachlorobenzene	<0.072		0.072	0.0071	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Diethyl phthalate	<0.18	*	0.18	0.060	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Phenanthrene	0.16		0.036	0.015	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Anthracene	0.041		0.036	0.0084	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Fluoranthene	0.24		0.036	0.015	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Pyrene	0.18		0.036	0.013	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Benzo[a]anthracene	0.14		0.036	0.0075	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B08

Lab Sample ID: 500-59745-11

Date Collected: 07/24/13 14:10

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.14		0.036	0.0081	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Benzo[b]fluoranthene	0.19		0.036	0.0070	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Benzo[k]fluoranthene	0.089		0.036	0.0086	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Benzo[a]pyrene	0.14		0.036	0.0065	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Indeno[1,2,3-cd]pyrene	0.090		0.036	0.012	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Dibenz(a,h)anthracene	0.033	J	0.036	0.010	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Benzo[g,h,i]perylene	0.10		0.036	0.012	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	07/31/13 07:20	08/06/13 01:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		30 - 110				07/31/13 07:20	08/06/13 01:54	1
Phenol-d5	81		31 - 110				07/31/13 07:20	08/06/13 01:54	1
Nitrobenzene-d5	74		30 - 115				07/31/13 07:20	08/06/13 01:54	1
2-Fluorobiphenyl	82		30 - 119				07/31/13 07:20	08/06/13 01:54	1
2,4,6-Tribromophenol	102		35 - 137				07/31/13 07:20	08/06/13 01:54	1
Terphenyl-d14	84		36 - 134				07/31/13 07:20	08/06/13 01:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Arsenic	9.1		0.56	0.11	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Barium	56		0.56	0.060	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Beryllium	0.48		0.22	0.020	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Boron	1.2	J	2.8	0.12	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Cadmium	0.43	J B	0.11	0.014	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Calcium	5000	B	11	3.0	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Chromium	17		0.56	0.065	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Cobalt	15		0.28	0.020	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Copper	18	B	0.56	0.050	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Iron	21000	B	11	4.6	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Lead	37		0.28	0.083	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Magnesium	4900	B	5.6	1.2	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Manganese	440	B	0.56	0.030	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Nickel	16	B	0.56	0.055	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Potassium	910		28	1.7	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Selenium	0.61		0.56	0.20	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Sodium	1200		56	7.5	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Thallium	0.32	J	0.56	0.24	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Vanadium	22		0.28	0.041	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1
Zinc	42	B	1.1	0.23	mg/Kg	☼	07/25/13 12:48	08/04/13 00:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/15/13 13:30	08/20/13 05:27	1
Chromium	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 05:27	1
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 05:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B08

Lab Sample ID: 500-59745-11

Date Collected: 07/24/13 14:10

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0089		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 05:27	1
Manganese	0.15		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 05:27	1
Nickel	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 05:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60	B	0.50	0.010	mg/L		07/29/13 12:00	08/06/13 01:00	1
Beryllium	0.0042		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 01:00	1
Boron	0.35		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 01:00	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 01:00	1
Chromium	0.11		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:00	1
Cobalt	0.031		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 01:00	1
Iron	120		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 01:00	1
Lead	0.17		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 01:00	1
Manganese	0.50		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:00	1
Nickel	0.12		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:00	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 01:00	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 01:00	1
Zinc	0.47	B	0.10	0.020	mg/L		07/29/13 12:00	08/06/13 01:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:11	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 18:50	1
Thallium	0.0024		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:12	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00024	B	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 12:29	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0083	mg/Kg	☼	07/25/13 17:00	07/26/13 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.54		0.200	0.200	SU			08/04/13 18:33	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B09

Lab Sample ID: 500-59745-12

Date Collected: 07/24/13 14:00

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1
Xylenes, Total	<0.0092		0.0092	0.00041	mg/Kg	☼	07/24/13 14:00	07/31/13 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	07/24/13 14:00	07/31/13 02:54	1
Dibromofluoromethane	93		75 - 120	07/24/13 14:00	07/31/13 02:54	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	07/24/13 14:00	07/31/13 02:54	1
Toluene-d8 (Surr)	100		75 - 122	07/24/13 14:00	07/31/13 02:54	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	☼	07/31/13 07:20	08/06/13 02:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B09

Lab Sample ID: 500-59745-12

Date Collected: 07/24/13 14:00

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Acenaphthylene	0.013	J	0.039	0.0090	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Diethyl phthalate	<0.20	*	0.20	0.066	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Phenanthrene	0.093		0.039	0.016	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Anthracene	0.016	J	0.039	0.0092	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Fluoranthene	0.18		0.039	0.016	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Pyrene	0.17		0.039	0.014	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Benzo[a]anthracene	0.12		0.039	0.0082	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B09

Lab Sample ID: 500-59745-12

Date Collected: 07/24/13 14:00

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.18		0.039	0.0089	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Bis(2-ethylhexyl) phthalate	0.085	J	0.20	0.052	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Benzo[b]fluoranthene	0.22		0.039	0.0076	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Benzo[k]fluoranthene	0.096		0.039	0.0094	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Benzo[a]pyrene	0.16		0.039	0.0072	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Indeno[1,2,3-cd]pyrene	0.11		0.039	0.013	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Dibenz(a,h)anthracene	0.043		0.039	0.011	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Benzo[g,h,i]perylene	0.14		0.039	0.013	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	07/31/13 07:20	08/06/13 02:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		30 - 110				07/31/13 07:20	08/06/13 02:17	1
Phenol-d5	86		31 - 110				07/31/13 07:20	08/06/13 02:17	1
Nitrobenzene-d5	71		30 - 115				07/31/13 07:20	08/06/13 02:17	1
2-Fluorobiphenyl	77		30 - 119				07/31/13 07:20	08/06/13 02:17	1
2,4,6-Tribromophenol	91		35 - 137				07/31/13 07:20	08/06/13 02:17	1
Terphenyl-d14	73		36 - 134				07/31/13 07:20	08/06/13 02:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Arsenic	8.5		0.57	0.11	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Barium	53		0.57	0.061	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Beryllium	0.58		0.23	0.020	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Boron	3.1		2.9	0.12	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Cadmium	0.98	J B	0.11	0.015	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Calcium	23000	B	11	3.1	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Chromium	16		0.57	0.067	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Cobalt	10		0.29	0.021	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Copper	25	B	0.57	0.051	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Iron	19000	B	11	4.7	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Lead	69		0.29	0.086	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Magnesium	16000	B	5.7	1.2	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Manganese	460	B	0.57	0.031	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Nickel	24	B	0.57	0.056	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Potassium	1300		29	1.7	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Sodium	1800		57	7.7	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Thallium	0.34	J	0.57	0.24	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Vanadium	16		0.29	0.043	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1
Zinc	67	B	1.1	0.23	mg/Kg	☼	07/25/13 12:48	08/04/13 00:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/15/13 13:30	08/20/13 05:33	1
Chromium	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 05:33	1
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 05:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

Client Sample ID: 846D-118-B09

Lab Sample ID: 500-59745-12

Date Collected: 07/24/13 14:00

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0082		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 05:33	1
Manganese	0.51		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 05:33	1
Nickel	0.010	J	0.025	0.010	mg/L		08/15/13 13:30	08/20/13 05:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70	B	0.50	0.010	mg/L		07/29/13 12:00	08/06/13 01:04	1
Beryllium	0.0045		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 01:04	1
Boron	0.43		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 01:04	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 01:04	1
Chromium	0.11		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:04	1
Cobalt	0.032		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 01:04	1
Iron	110		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 01:04	1
Lead	0.27		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 01:04	1
Manganese	0.69		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:04	1
Nickel	0.12		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:04	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 01:04	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 01:04	1
Zinc	0.65	B	0.10	0.020	mg/L		07/29/13 12:00	08/06/13 01:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:12	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 18:54	1
Thallium	0.0024		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:13	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00025	B	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 12:31	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.020	0.0093	mg/Kg	☼	07/25/13 17:00	07/26/13 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.74		0.200	0.200	SU			08/04/13 18:36	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-1

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
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
E	Result exceeded calibration range.

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	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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.
α	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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

500-59745 COC
 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: US 61/127 Will/Cook Co
 Project No.: IDOT 2013-022
 TAT: 5 BD 10 BD 5 BD 2 BD Other

COC No.: _____ of _____
 Lab Job No.: 500-59745
 Sample Temp: (3.3)(2.8)(2.4)(3.1)
 Matrix Key: (2.6)

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	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization				
1	846D-118-B01	7/24/13	3:20P	S	X	X					X	X	X	X					
2	846D-118-B02-1		3:15P																
3	846D-118-B02-2		3:10P																
4	846D-118-B03		3:05P																
5	846D-118-B04		2:55P																
6	846D-118-B05-1		2:40P																
7	846D-118-B05-1 DUP		2:45P																
8	846D-118-B05-2		2:50P																
9	846D-118-B06		2:30P																
10	846D-118-B07		2:20PM																
11	846D-118-B08		2:10PM																
12	846D-118-B09		2:00PM	S	X	X					X	X	X	X					

Relinquished by: David J. Mackinson (AET) Date/Time: 7/24/13 4:15 PM
 Relinquished by: [Signature] Date/Time: 7/29/13/1615
 Relinquished by: [Signature] Date/Time: 7/25/13 4:00

Received by: [Signature] Date/Time: 7-27-13/1415
 Received by: [Signature] Date/Time: 7/25/13 4:00
 Received by: [Signature] 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: <u>US6 / IL 7 WILL/COOK CO</u> Project No.: <u>IDOT 2013-022</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.: _____ of _____ Lab Job No.: <u>500-59745</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.		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other									
ANALYSES											
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
13	846 D-118-B10	7/24/13	1:50P	S	X	X	X	X	X		
Relinquished by: <u>Daniel J. MacKinnon (AET)</u> Date/Time: <u>7/24/13 4:15 AM</u> Relinquished by: <u>[Signature]</u> Date/Time: <u>7/24/13 1:46 P</u> Relinquished by: _____ Date/Time: _____											



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

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

11583 to 12001 W 159th St.

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.60037 Longitude: -87.90602
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 351 (U.S. 6/IL 7)
 Latitude: 41.60037 Longitude: -87.90602

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 846D-119-B01 THRU -B05, -B08 THRU -B10, & -B12 WERE SAMPLED ADJACENT TO SITE No. 846D-119. SEE FIGURE 2, FIGURE 3 AND TABLE 3b OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59745-2 & 500-59840-1

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

I, Steven Gobelman (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: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

9/20/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-119
Farmstead

Sample ID	846D-119-B01	846D-119-B02	846D-119-B03	846D-119-B04	846D-119-B05	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-3	0-3	0-3	0-3	0-3						
Sample Date	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013						
PID	0	0	0	0	0						
Sample pH	7.46	7.5	8.47	8.27	8.41						
Matrix	Soil	Soil	Soil	Soil	Soil						
Inorganic Compounds, Total (mg/kg)											
Arsenic	9.6	11	8.7	9.2	8.7	11.3	NA	11.3	NA	13	NA

Sample ID	846D-119-B08-1	846D-119-B08-2	846D-119-B08-3	846D-119-B09-1	846D-119-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)	0-5	5-10	10-15	0-5	5-10							
Sample Date	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013							
PID	0	0	0	0	0							
Sample pH	8.89	8.51	7.93	8.82	8.28							
Matrix	Soil	Soil	Soil	Soil	Soil							
Inorganic Compounds, Total (mg/kg)												
Arsenic	8.7	7.6	8.5	13	1.3	11	11.3	NA	11.3	NA	13	NA

Sample ID	846D-119-B09-3	846D-119-B10-1	846D-119-B10-2	846D-119-B10-3	846D-119-B12	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)	10-15	0-5	5-10	10-15	0-3						
Sample Date	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013						
PID	0	0	0	0	0						
Sample pH	8.5	8.7	8.32	7.05	8.59						
Matrix	Soil	Soil	Soil	Soil	Soil						
Inorganic Compounds, Total (mg/kg)											
Arsenic	7.8	9.2	7.8	10	8.8	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: 500-59745-2
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/20/2013 1:28:31 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

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www.testamericainc.com

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

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

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

1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B01

Lab Sample ID: 500-59745-14

Date Collected: 07/24/13 10:35

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.0050	0.0022	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Bromodichloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Carbon tetrachloride	<0.0050		0.0050	0.00092	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Dibromochloromethane	<0.0050		0.0050	0.00088	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
1,1-Dichloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
1,2-Dichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
1,1-Dichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
1,2-Dichloropropane	<0.0050		0.0050	0.00077	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Toluene	<0.0050		0.0050	0.00071	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00069	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Vinyl acetate	<0.0050		0.0050	0.00079	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	07/24/13 10:35	07/31/13 03:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	07/24/13 10:35	07/31/13 03:39	1
Dibromofluoromethane	94		75 - 120	07/24/13 10:35	07/31/13 03:39	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	07/24/13 10:35	07/31/13 03:39	1
Toluene-d8 (Surr)	98		75 - 122	07/24/13 10:35	07/31/13 03:39	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	☼	07/31/13 07:20	08/05/13 23:08	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B01

Lab Sample ID: 500-59745-14

Date Collected: 07/24/13 10:35

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
2-Methylphenol	<0.21		0.21	0.056	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Naphthalene	<0.042		0.042	0.0081	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
4-Chloroaniline	<0.85		0.85	0.13	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
2,4,6-Trichlorophenol	<0.42		0.42	0.053	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Hexachlorocyclopentadiene	<0.85		0.85	0.20	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
2-Methylnaphthalene	<0.21		0.21	0.055	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
2-Nitroaniline	<0.21		0.21	0.076	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
2-Nitrophenol	<0.42		0.42	0.066	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
3-Nitroaniline	<0.42		0.42	0.081	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
2,4-Dinitrophenol	<0.85		0.85	0.22	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Acenaphthylene	<0.042		0.042	0.0097	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Dibenzofuran	<0.21		0.21	0.051	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
4-Nitrophenol	<0.85		0.85	0.23	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Fluorene	<0.042		0.042	0.0096	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
4-Nitroaniline	<0.42		0.42	0.086	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Hexachlorobenzene	<0.085		0.085	0.0083	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Diethyl phthalate	<0.21	*	0.21	0.070	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Pentachlorophenol	<0.85		0.85	0.21	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
N-Nitrosodiphenylamine	<0.21		0.21	0.057	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Phenanthrene	<0.042		0.042	0.018	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Anthracene	<0.042		0.042	0.0099	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Fluoranthene	0.030	J	0.042	0.017	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Pyrene	0.023	J	0.042	0.015	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Butyl benzyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Benzo[a]anthracene	0.032	J	0.042	0.0088	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B01

Lab Sample ID: 500-59745-14

Date Collected: 07/24/13 10:35

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.049		0.042	0.0095	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.056	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Di-n-octyl phthalate	<0.21		0.21	0.085	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Benzo[b]fluoranthene	0.054		0.042	0.0082	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Benzo[k]fluoranthene	0.026 J		0.042	0.010	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Benzo[a]pyrene	0.045		0.042	0.0077	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Indeno[1,2,3-cd]pyrene	0.029 J		0.042	0.014	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Dibenz(a,h)anthracene	0.019 J		0.042	0.012	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Benzo[g,h,i]perylene	0.039 J		0.042	0.014	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
3 & 4 Methylphenol	<0.21		0.21	0.080	mg/Kg	☼	07/31/13 07:20	08/05/13 23:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		30 - 110				07/31/13 07:20	08/05/13 23:08	1
Phenol-d5	66		31 - 110				07/31/13 07:20	08/05/13 23:08	1
Nitrobenzene-d5	62		30 - 115				07/31/13 07:20	08/05/13 23:08	1
2-Fluorobiphenyl	65		30 - 119				07/31/13 07:20	08/05/13 23:08	1
2,4,6-Tribromophenol	81		35 - 137				07/31/13 07:20	08/05/13 23:08	1
Terphenyl-d14	66		36 - 134				07/31/13 07:20	08/05/13 23:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Arsenic	9.6		0.61	0.12	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Barium	82		0.61	0.065	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Beryllium	0.71		0.24	0.021	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Boron	1.8 J		3.0	0.13	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Cadmium	0.53 J B		0.12	0.015	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Calcium	5000 B		12	3.3	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Chromium	23		0.61	0.071	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Cobalt	10		0.30	0.022	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Copper	26 B		0.61	0.054	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Iron	26000 B		12	5.0	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Lead	28		0.30	0.091	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Magnesium	5700 B		6.1	1.3	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Manganese	360 B		0.61	0.033	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Nickel	21 B		0.61	0.060	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Potassium	1200		30	1.8	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Selenium	0.51 J		0.61	0.22	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Sodium	1800		61	8.2	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Thallium	0.46 J		0.61	0.26	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Vanadium	26		0.30	0.045	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1
Zinc	55 B		1.2	0.25	mg/Kg	☼	07/25/13 12:48	08/04/13 00:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/15/13 13:30	08/20/13 05:45	1
Chromium	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 05:45	1
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 05:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B01

Lab Sample ID: 500-59745-14

Date Collected: 07/24/13 10:35

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.041		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 05:45	1
Manganese	9.8		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 05:45	1
Nickel	0.020	J	0.025	0.010	mg/L		08/15/13 13:30	08/20/13 05:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.80	B	0.50	0.010	mg/L		07/29/13 12:00	08/06/13 01:20	1
Beryllium	0.0051		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 01:20	1
Boron	0.53		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 01:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 01:20	1
Chromium	0.14		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:20	1
Cobalt	0.060		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 01:20	1
Iron	150		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 01:20	1
Lead	0.14		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 01:20	1
Manganese	1.9		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:20	1
Nickel	0.14		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:20	1
Selenium	0.011	J	0.050	0.010	mg/L		07/29/13 12:00	08/06/13 01:20	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 01:20	1
Zinc	0.57	B	0.10	0.020	mg/L		07/29/13 12:00	08/06/13 01:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:13	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 19:01	1
Thallium	0.0026		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:15	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J B	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 12:35	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.019	0.0092	mg/Kg	☼	07/25/13 17:00	07/26/13 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.46		0.200	0.200	SU			08/04/13 18:43	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B02

Lab Sample ID: 500-59745-15

Date Collected: 07/24/13 10:40

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.028		0.0052	0.0023	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Benzene	<0.0052		0.0052	0.00072	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Bromodichloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Carbon tetrachloride	<0.0052		0.0052	0.00095	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00069	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Dibromochloromethane	<0.0052		0.0052	0.00091	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
1,1-Dichloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
1,2-Dichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
1,1-Dichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00069	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Ethylbenzene	<0.0052		0.0052	0.0011	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00086	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Styrene	<0.0052		0.0052	0.00069	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Tetrachloroethene	<0.0052		0.0052	0.00080	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00072	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00094	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Vinyl acetate	<0.0052		0.0052	0.00082	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	07/24/13 10:40	07/31/13 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	07/24/13 10:40	07/31/13 04:02	1
Dibromofluoromethane	92		75 - 120	07/24/13 10:40	07/31/13 04:02	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	07/24/13 10:40	07/31/13 04:02	1
Toluene-d8 (Surr)	97		75 - 122	07/24/13 10:40	07/31/13 04:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B02

Lab Sample ID: 500-59745-15

Date Collected: 07/24/13 10:40

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Diethyl phthalate	<0.20	*	0.20	0.067	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B02

Lab Sample ID: 500-59745-15

Date Collected: 07/24/13 10:40

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	07/31/13 07:20	08/05/13 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		30 - 110	07/31/13 07:20	08/05/13 23:32	1
Phenol-d5	97		31 - 110	07/31/13 07:20	08/05/13 23:32	1
Nitrobenzene-d5	76		30 - 115	07/31/13 07:20	08/05/13 23:32	1
2-Fluorobiphenyl	78		30 - 119	07/31/13 07:20	08/05/13 23:32	1
2,4,6-Tribromophenol	99		35 - 137	07/31/13 07:20	08/05/13 23:32	1
Terphenyl-d14	71		36 - 134	07/31/13 07:20	08/05/13 23:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Arsenic	11		0.59	0.12	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Barium	69		0.59	0.064	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Beryllium	0.83		0.24	0.021	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Boron	2.4 J		3.0	0.12	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Cadmium	0.39 J B		0.12	0.015	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Calcium	2400 B		12	3.2	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Chromium	23		0.59	0.069	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Cobalt	13		0.30	0.021	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Copper	32 B		0.59	0.053	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Iron	29000 B		12	4.9	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Lead	17		0.30	0.088	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Magnesium	4400 B		5.9	1.2	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Manganese	260 B		0.59	0.032	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Nickel	31 B		0.59	0.058	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Potassium	1600		30	1.8	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Selenium	0.48 J		0.59	0.21	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Sodium	1700		59	8.0	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Thallium	0.53 J		0.59	0.25	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Vanadium	23		0.30	0.044	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1
Zinc	54 B		1.2	0.24	mg/Kg	☼	07/25/13 12:48	08/04/13 01:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/15/13 13:30	08/20/13 05:52	1
Chromium	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 05:52	1
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 05:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B02

Lab Sample ID: 500-59745-15

Date Collected: 07/24/13 10:40

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 05:52	1
Manganese	1.3		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 05:52	1
Nickel	0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 05:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0	B	0.50	0.010	mg/L		07/29/13 12:00	08/06/13 01:24	1
Beryllium	0.0081		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 01:24	1
Boron	0.45		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 01:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 01:24	1
Chromium	0.20		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:24	1
Cobalt	0.065		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 01:24	1
Iron	210		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 01:24	1
Lead	0.097		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 01:24	1
Manganese	0.82		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:24	1
Nickel	0.25		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:24	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 01:24	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 01:24	1
Zinc	0.69	B	0.10	0.020	mg/L		07/29/13 12:00	08/06/13 01:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:14	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 19:05	1
Thallium	0.0051		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:16	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00029	B	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 12:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.020	0.0093	mg/Kg	☼	07/25/13 17:00	07/26/13 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.50		0.200	0.200	SU			08/04/13 18:46	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B03

Lab Sample ID: 500-59745-16

Date Collected: 07/24/13 10:45

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0087		0.0045	0.0019	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	07/24/13 10:45	07/31/13 04:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	07/24/13 10:45	07/31/13 04:25	1
Dibromofluoromethane	95		75 - 120	07/24/13 10:45	07/31/13 04:25	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	07/24/13 10:45	07/31/13 04:25	1
Toluene-d8 (Surr)	101		75 - 122	07/24/13 10:45	07/31/13 04:25	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	☼	07/31/13 07:20	08/05/13 23:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B03

Lab Sample ID: 500-59745-16

Date Collected: 07/24/13 10:45

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Diethyl phthalate	<0.19	*	0.19	0.063	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B03

Lab Sample ID: 500-59745-16

Date Collected: 07/24/13 10:45

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	07/31/13 07:20	08/05/13 23:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		30 - 110				07/31/13 07:20	08/05/13 23:56	1
Phenol-d5	75		31 - 110				07/31/13 07:20	08/05/13 23:56	1
Nitrobenzene-d5	71		30 - 115				07/31/13 07:20	08/05/13 23:56	1
2-Fluorobiphenyl	71		30 - 119				07/31/13 07:20	08/05/13 23:56	1
2,4,6-Tribromophenol	83		35 - 137				07/31/13 07:20	08/05/13 23:56	1
Terphenyl-d14	73		36 - 134				07/31/13 07:20	08/05/13 23:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Arsenic	8.7		0.55	0.11	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Barium	42		0.55	0.059	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Beryllium	0.55		0.22	0.019	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Boron	5.6		2.7	0.11	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Cadmium	0.66	J B	0.11	0.014	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Calcium	38000	B	11	3.0	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Chromium	15		0.55	0.064	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Cobalt	12		0.27	0.020	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Copper	21	B	0.55	0.049	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Iron	20000	B	11	4.5	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Lead	13		0.27	0.082	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Magnesium	22000	B	5.5	1.1	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Manganese	430	B	0.55	0.030	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Nickel	29	B	0.55	0.054	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Potassium	1800		27	1.6	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Sodium	980		55	7.3	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Thallium	0.59		0.55	0.23	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Vanadium	15		0.27	0.041	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1
Zinc	49	B	1.1	0.22	mg/Kg	☼	07/25/13 12:48	08/04/13 01:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 05:58	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 05:58	1
Manganese	1.9		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 05:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B03

Lab Sample ID: 500-59745-16

Date Collected: 07/24/13 10:45

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55	B	0.50	0.010	mg/L		07/29/13 12:00	08/06/13 01:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 01:29	1
Boron	0.67		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 01:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 01:29	1
Chromium	0.061		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:29	1
Cobalt	0.020	J	0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 01:29	1
Iron	69		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 01:29	1
Lead	0.036		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 01:29	1
Manganese	0.41		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:29	1
Nickel	0.077		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:29	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 01:29	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 01:29	1
Zinc	0.46	B	0.10	0.020	mg/L		07/29/13 12:00	08/06/13 01:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:15	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 19:17	1
Thallium	0.0020		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:19	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	J B	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 12:43	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0085	mg/Kg	☼	07/25/13 17:00	07/26/13 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.47		0.200	0.200	SU			08/04/13 18:48	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B04

Lab Sample ID: 500-59745-17

Date Collected: 07/24/13 10:50

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0035	J	0.0041	0.0018	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	07/24/13 10:50	07/31/13 04:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/24/13 10:50	07/31/13 04:48	1
Dibromofluoromethane	95		75 - 120	07/24/13 10:50	07/31/13 04:48	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	07/24/13 10:50	07/31/13 04:48	1
Toluene-d8 (Surr)	97		75 - 122	07/24/13 10:50	07/31/13 04:48	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	☼	07/31/13 07:20	08/06/13 00:19	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B04

Lab Sample ID: 500-59745-17

Date Collected: 07/24/13 10:50

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Naphthalene	<0.037		0.037	0.0073	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Acenaphthylene	<0.037		0.037	0.0087	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Diethyl phthalate	<0.19	*	0.19	0.063	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.092	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Anthracene	<0.037		0.037	0.0089	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B04

Lab Sample ID: 500-59745-17

Date Collected: 07/24/13 10:50

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Benzo[b]fluoranthene	0.0084	J	0.037	0.0073	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Benzo[a]pyrene	<0.037		0.037	0.0069	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	07/31/13 07:20	08/06/13 00:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		30 - 110				07/31/13 07:20	08/06/13 00:19	1
Phenol-d5	83		31 - 110				07/31/13 07:20	08/06/13 00:19	1
Nitrobenzene-d5	71		30 - 115				07/31/13 07:20	08/06/13 00:19	1
2-Fluorobiphenyl	76		30 - 119				07/31/13 07:20	08/06/13 00:19	1
2,4,6-Tribromophenol	85		35 - 137				07/31/13 07:20	08/06/13 00:19	1
Terphenyl-d14	72		36 - 134				07/31/13 07:20	08/06/13 00:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Arsenic	9.2		0.57	0.11	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Barium	53		0.57	0.061	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Beryllium	0.60		0.23	0.020	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Boron	3.8		2.9	0.12	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Cadmium	0.53	J B	0.11	0.015	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Calcium	12000	B	11	3.1	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Chromium	16		0.57	0.066	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Cobalt	11		0.29	0.020	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Copper	24	B	0.57	0.051	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Iron	21000	B	11	4.7	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Lead	14		0.29	0.085	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Magnesium	9900	B	5.7	1.2	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Manganese	440	B	0.57	0.031	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Nickel	41	B	0.57	0.056	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Potassium	1500		29	1.7	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Sodium	1000		57	7.7	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Thallium	0.54	J	0.57	0.24	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Vanadium	16		0.29	0.042	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1
Zinc	51	B	1.1	0.23	mg/Kg	☼	07/25/13 12:48	08/04/13 01:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 06:04	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 06:04	1
Manganese	0.94		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 06:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B04

Lab Sample ID: 500-59745-17

Date Collected: 07/24/13 10:50

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.014	J	0.025	0.010	mg/L		08/15/13 13:30	08/20/13 06:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53	B	0.50	0.010	mg/L		07/29/13 12:00	08/06/13 01:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 01:33	1
Boron	0.47		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 01:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 01:33	1
Chromium	0.074		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:33	1
Cobalt	0.019	J	0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 01:33	1
Iron	79		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 01:33	1
Lead	0.032		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 01:33	1
Manganese	0.35		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:33	1
Nickel	0.12		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:33	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 01:33	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 01:33	1
Zinc	0.39	B	0.10	0.020	mg/L		07/29/13 12:00	08/06/13 01:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:15	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 19:21	1
Thallium	0.0020		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:20	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000089	J B	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 12:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0087	mg/Kg	☼	07/25/13 17:00	07/26/13 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.27		0.200	0.200	SU			08/04/13 18:51	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B05

Lab Sample ID: 500-59745-18

Date Collected: 07/24/13 10:55

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0043	J	0.0045	0.0019	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	07/24/13 10:55	07/31/13 05:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/24/13 10:55	07/31/13 05:10	1
Dibromofluoromethane	93		75 - 120	07/24/13 10:55	07/31/13 05:10	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	07/24/13 10:55	07/31/13 05:10	1
Toluene-d8 (Surr)	97		75 - 122	07/24/13 10:55	07/31/13 05:10	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	☼	07/31/13 07:20	08/06/13 00:43	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B05

Lab Sample ID: 500-59745-18

Date Collected: 07/24/13 10:55

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Hexachlorobenzene	<0.073		0.073	0.0072	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Diethyl phthalate	<0.18	*	0.18	0.061	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B05

Lab Sample ID: 500-59745-18

Date Collected: 07/24/13 10:55

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	07/31/13 07:20	08/06/13 00:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		30 - 110				07/31/13 07:20	08/06/13 00:43	1
Phenol-d5	89		31 - 110				07/31/13 07:20	08/06/13 00:43	1
Nitrobenzene-d5	84		30 - 115				07/31/13 07:20	08/06/13 00:43	1
2-Fluorobiphenyl	83		30 - 119				07/31/13 07:20	08/06/13 00:43	1
2,4,6-Tribromophenol	88		35 - 137				07/31/13 07:20	08/06/13 00:43	1
Terphenyl-d14	77		36 - 134				07/31/13 07:20	08/06/13 00:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Arsenic	8.7		0.54	0.11	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Barium	28		0.54	0.058	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Beryllium	0.45		0.22	0.019	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Boron	5.6		2.7	0.11	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Cadmium	0.67	J B	0.11	0.014	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Calcium	50000	B	11	2.9	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Chromium	12		0.54	0.063	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Cobalt	8.3		0.27	0.019	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Copper	24	B	0.54	0.048	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Iron	17000	B	11	4.5	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Lead	12		0.27	0.081	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Magnesium	27000	B	5.4	1.1	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Manganese	360	B	0.54	0.029	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Nickel	21	B	0.54	0.053	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Potassium	1500		27	1.6	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Sodium	1100		54	7.3	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Thallium	0.36	J	0.54	0.23	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Vanadium	15		0.27	0.040	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1
Zinc	52	B	1.1	0.22	mg/Kg	☼	07/25/13 12:48	08/04/13 01:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 06:10	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 06:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B05

Lab Sample ID: 500-59745-18

Date Collected: 07/24/13 10:55

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47	J B	0.50	0.010	mg/L		07/29/13 12:00	08/06/13 01:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 01:37	1
Boron	0.62		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 01:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 01:37	1
Chromium	0.015	J	0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:37	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 01:37	1
Iron	15		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 01:37	1
Lead	0.0094		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 01:37	1
Manganese	0.094		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:37	1
Nickel	0.016	J	0.025	0.010	mg/L		07/29/13 12:00	08/06/13 01:37	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 01:37	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 01:37	1
Zinc	0.33	B	0.10	0.020	mg/L		07/29/13 12:00	08/06/13 01:37	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 19:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:21	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000022	J B	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 12:47	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.017	0.0081	mg/Kg	☆	07/25/13 17:00	07/26/13 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.41		0.200	0.200	SU			08/04/13 18:53	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B08-1

Lab Sample ID: 500-59745-26

Date Collected: 07/24/13 11:50

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012		0.0040	0.0017	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Bromodichloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Bromoform	<0.0040		0.0040	0.00092	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Chloromethane	<0.0040		0.0040	0.00084	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
1,1-Dichloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
1,1-Dichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Ethylbenzene	<0.0040		0.0040	0.00081	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0010	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00066	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Tetrachloroethene	<0.0040		0.0040	0.00061	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Trichloroethene	<0.0040		0.0040	0.00066	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Vinyl chloride	<0.0040		0.0040	0.00084	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1
Xylenes, Total	<0.0080		0.0080	0.00036	mg/Kg	☼	07/24/13 11:50	07/31/13 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	07/24/13 11:50	07/31/13 14:25	1
Dibromofluoromethane	107		75 - 120	07/24/13 11:50	07/31/13 14:25	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	07/24/13 11:50	07/31/13 14:25	1
Toluene-d8 (Surr)	99		75 - 122	07/24/13 11:50	07/31/13 14:25	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	☼	07/31/13 18:26	08/03/13 03:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B08-1

Lab Sample ID: 500-59745-26

Date Collected: 07/24/13 11:50

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B08-1

Lab Sample ID: 500-59745-26

Date Collected: 07/24/13 11:50

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	07/31/13 18:26	08/03/13 03:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		30 - 110	07/31/13 18:26	08/03/13 03:43	1
Phenol-d5	85		31 - 110	07/31/13 18:26	08/03/13 03:43	1
Nitrobenzene-d5	78		30 - 115	07/31/13 18:26	08/03/13 03:43	1
2-Fluorobiphenyl	82		30 - 119	07/31/13 18:26	08/03/13 03:43	1
2,4,6-Tribromophenol	71		35 - 137	07/31/13 18:26	08/03/13 03:43	1
Terphenyl-d14	71		36 - 134	07/31/13 18:26	08/03/13 03:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.42	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Arsenic	8.7		0.53	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Barium	25		0.53	0.057	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Beryllium	0.52		0.21	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Boron	8.8		2.6	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Cadmium	0.85		0.11	0.013	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Calcium	48000	B	11	2.9	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Chromium	13		0.53	0.061	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Cobalt	7.8		0.26	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Copper	24		0.53	0.047	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Iron	18000		11	4.3	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Lead	12	B	0.26	0.079	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Magnesium	27000	B	5.3	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Manganese	290	B	0.53	0.029	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Nickel	22	B	0.53	0.052	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Potassium	2300		26	1.6	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Sodium	620		53	7.1	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Thallium	0.33	J	0.53	0.22	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Vanadium	16	B	0.26	0.039	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1
Zinc	50	B	1.1	0.21	mg/Kg	☼	07/25/13 12:30	08/06/13 00:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 08:12	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 08:12	1
Manganese	1.0		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 08:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B08-1

Lab Sample ID: 500-59745-26

Date Collected: 07/24/13 11:50

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 08:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70		0.50	0.010	mg/L		07/29/13 12:00	08/06/13 02:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 02:40	1
Boron	1.0		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 02:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 02:40	1
Chromium	0.087		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 02:40	1
Cobalt	0.042		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 02:40	1
Iron	110		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 02:40	1
Lead	0.059		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 02:40	1
Manganese	0.45		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 02:40	1
Nickel	0.13		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 02:40	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 02:40	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 02:40	1
Zinc	0.73		0.10	0.020	mg/L		07/29/13 12:00	08/06/13 02:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:24	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 20:34	1
Thallium	0.0038		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:34	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 09:44	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.019	0.0088	mg/Kg	☼	07/26/13 14:00	07/29/13 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.89		0.200	0.200	SU			08/04/13 19:18	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B08-2

Lab Sample ID: 500-59745-27

Date Collected: 07/24/13 11:55

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015		0.0044	0.0019	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Carbon tetrachloride	<0.0044		0.0044	0.00079	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Chloromethane	<0.0044		0.0044	0.00091	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
1,2-Dichloropropane	<0.0044		0.0044	0.00066	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Ethylbenzene	<0.0044		0.0044	0.00088	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00088	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00078	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00059	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Vinyl acetate	<0.0044		0.0044	0.00068	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Vinyl chloride	<0.0044		0.0044	0.00091	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	07/24/13 11:55	07/31/13 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	07/24/13 11:55	07/31/13 14:48	1
Dibromofluoromethane	108		75 - 120	07/24/13 11:55	07/31/13 14:48	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	07/24/13 11:55	07/31/13 14:48	1
Toluene-d8 (Surr)	96		75 - 122	07/24/13 11:55	07/31/13 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	☼	07/31/13 18:26	08/03/13 04:07	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B08-2

Lab Sample ID: 500-59745-27

Date Collected: 07/24/13 11:55

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Hexachlorocyclopentadiene	<0.72		0.72	0.17	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Acenaphthylene	<0.036		0.036	0.0082	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Fluorene	<0.036		0.036	0.0081	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
4-Nitroaniline	<0.36		0.36	0.073	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Hexachlorobenzene	<0.072		0.072	0.0071	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Anthracene	<0.036		0.036	0.0084	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Benzo[a]anthracene	<0.036		0.036	0.0075	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B08-2

Lab Sample ID: 500-59745-27

Date Collected: 07/24/13 11:55

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0081	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Benzo[k]fluoranthene	<0.036		0.036	0.0085	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Benzo[a]pyrene	<0.036		0.036	0.0065	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	07/31/13 18:26	08/03/13 04:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		30 - 110				07/31/13 18:26	08/03/13 04:07	1
Phenol-d5	67		31 - 110				07/31/13 18:26	08/03/13 04:07	1
Nitrobenzene-d5	78		30 - 115				07/31/13 18:26	08/03/13 04:07	1
2-Fluorobiphenyl	81		30 - 119				07/31/13 18:26	08/03/13 04:07	1
2,4,6-Tribromophenol	79		35 - 137				07/31/13 18:26	08/03/13 04:07	1
Terphenyl-d14	79		36 - 134				07/31/13 18:26	08/03/13 04:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Arsenic	7.6		0.55	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Barium	21		0.55	0.058	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Beryllium	0.52		0.22	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Boron	9.2		2.7	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Cadmium	0.82		0.11	0.014	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Calcium	42000	B	11	3.0	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Chromium	14		0.55	0.063	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Cobalt	11		0.27	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Copper	29		0.55	0.048	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Iron	19000		11	4.5	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Lead	15	B	0.27	0.081	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Magnesium	26000	B	5.5	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Manganese	400	B	0.55	0.030	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Nickel	26	B	0.55	0.053	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Potassium	2500		27	1.6	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Sodium	530		55	7.3	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Thallium	0.49	J	0.55	0.23	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Vanadium	16	B	0.27	0.040	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1
Zinc	51	B	1.1	0.22	mg/Kg	☼	07/25/13 12:30	08/06/13 00:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 08:18	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 08:18	1
Manganese	1.9		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 08:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B08-2

Lab Sample ID: 500-59745-27

Date Collected: 07/24/13 11:55

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.016	J	0.025	0.010	mg/L		08/15/13 13:30	08/20/13 08:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57		0.50	0.010	mg/L		07/29/13 12:00	08/06/13 02:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 02:44	1
Boron	0.79		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 02:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 02:44	1
Chromium	0.078		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 02:44	1
Cobalt	0.038		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 02:44	1
Iron	90		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 02:44	1
Lead	0.053		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 02:44	1
Manganese	0.61		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 02:44	1
Nickel	0.12		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 02:44	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 02:44	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 02:44	1
Zinc	0.61		0.10	0.020	mg/L		07/29/13 12:00	08/06/13 02:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:25	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 20:38	1
Thallium	0.0024		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:35	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00022		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 09:46	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.018	0.0086	mg/Kg	☼	07/26/13 14:00	07/29/13 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.51		0.200	0.200	SU			08/04/13 19:20	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B08-3

Lab Sample ID: 500-59745-28

Date Collected: 07/24/13 12:00

Matrix: Solid

Date Received: 07/25/13 06:00

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	☼	07/24/13 12:00	07/31/13 15:11	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1
Xylenes, Total	<0.0094		0.0094	0.00042	mg/Kg	☼	07/24/13 12:00	07/31/13 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/24/13 12:00	07/31/13 15:11	1
Dibromofluoromethane	109		75 - 120	07/24/13 12:00	07/31/13 15:11	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/24/13 12:00	07/31/13 15:11	1
Toluene-d8 (Surr)	95		75 - 122	07/24/13 12:00	07/31/13 15:11	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	☼	07/31/13 18:26	08/03/13 04:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B08-3

Lab Sample ID: 500-59745-28

Date Collected: 07/24/13 12:00

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Hexachlorobenzene	<0.077		0.077	0.0076	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B08-3

Lab Sample ID: 500-59745-28

Date Collected: 07/24/13 12:00

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	07/31/13 18:26	08/03/13 04:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		30 - 110				07/31/13 18:26	08/03/13 04:31	1
Phenol-d5	61		31 - 110				07/31/13 18:26	08/03/13 04:31	1
Nitrobenzene-d5	57		30 - 115				07/31/13 18:26	08/03/13 04:31	1
2-Fluorobiphenyl	60		30 - 119				07/31/13 18:26	08/03/13 04:31	1
2,4,6-Tribromophenol	66		35 - 137				07/31/13 18:26	08/03/13 04:31	1
Terphenyl-d14	63		36 - 134				07/31/13 18:26	08/03/13 04:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Arsenic	8.5		0.55	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Barium	7.0		0.55	0.059	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Beryllium	0.37		0.22	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Boron	8.5		2.7	0.12	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Cadmium	1.0		0.11	0.014	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Calcium	130000	B	110	30	mg/Kg	☼	07/25/13 12:30	08/08/13 15:12	10
Chromium	12		0.55	0.064	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Cobalt	6.0		0.27	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Copper	19		0.55	0.049	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Iron	16000		11	4.5	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Lead	10	B	0.27	0.082	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Magnesium	71000	B	55	11	mg/Kg	☼	07/25/13 12:30	08/08/13 15:12	10
Manganese	1400	B	5.5	0.30	mg/Kg	☼	07/25/13 12:30	08/08/13 15:12	10
Nickel	16	B	0.55	0.054	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Potassium	1800		27	1.7	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Silver	0.064	J	0.27	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Sodium	270		55	7.4	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Vanadium	15	B	0.27	0.041	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1
Zinc	46	B	1.1	0.22	mg/Kg	☼	07/25/13 12:30	08/06/13 00:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.40	J	0.50	0.010	mg/L		07/29/13 12:00	08/06/13 02:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 02:56	1
Boron	0.92		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 02:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B08-3

Lab Sample ID: 500-59745-28

Date Collected: 07/24/13 12:00

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 02:56	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 02:56	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 02:56	1
Iron	0.40		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 02:56	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 02:56	1
Manganese	0.033		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 02:56	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 02:56	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 02:56	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 02:56	1
Zinc	0.37		0.10	0.020	mg/L		07/29/13 12:00	08/06/13 02:56	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 20:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:36	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 09:48	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.017	0.0081	mg/Kg	☆	07/26/13 14:00	07/29/13 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.93		0.200	0.200	SU			08/04/13 19:23	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B09-1

Lab Sample ID: 500-59745-29

Date Collected: 07/24/13 12:05

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0065		0.0044	0.0019	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	07/24/13 12:05	07/31/13 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	07/24/13 12:05	07/31/13 15:34	1
Dibromofluoromethane	105		75 - 120	07/24/13 12:05	07/31/13 15:34	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/24/13 12:05	07/31/13 15:34	1
Toluene-d8 (Surr)	93		75 - 122	07/24/13 12:05	07/31/13 15:34	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	☼	07/31/13 18:26	08/03/13 04:54	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B09-1

Lab Sample ID: 500-59745-29

Date Collected: 07/24/13 12:05

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Hexachlorobenzene	<0.073		0.073	0.0072	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Pentachlorophenol	<0.73		0.73	0.19	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B09-1

Lab Sample ID: 500-59745-29

Date Collected: 07/24/13 12:05

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	07/31/13 18:26	08/03/13 04:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		30 - 110				07/31/13 18:26	08/03/13 04:54	1
Phenol-d5	31		31 - 110				07/31/13 18:26	08/03/13 04:54	1
Nitrobenzene-d5	47		30 - 115				07/31/13 18:26	08/03/13 04:54	1
2-Fluorobiphenyl	44		30 - 119				07/31/13 18:26	08/03/13 04:54	1
2,4,6-Tribromophenol	49		35 - 137				07/31/13 18:26	08/03/13 04:54	1
Terphenyl-d14	50		36 - 134				07/31/13 18:26	08/03/13 04:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Arsenic	13		0.57	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Barium	25		0.57	0.061	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Beryllium	0.52		0.23	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Boron	8.2		2.8	0.12	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Cadmium	1.1		0.11	0.014	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Calcium	74000	B	57	15	mg/Kg	☼	07/25/13 12:30	08/06/13 13:47	5
Chromium	12		0.57	0.066	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Cobalt	11		0.28	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Copper	24		0.57	0.050	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Iron	22000		11	4.7	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Lead	12	B	0.28	0.085	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Magnesium	36000	B	5.7	1.2	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Manganese	410	B	0.57	0.031	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Nickel	23	B	0.57	0.056	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Potassium	2100		28	1.7	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Sodium	720		57	7.6	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Thallium	0.64		0.57	0.24	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Vanadium	16	B	0.28	0.042	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1
Zinc	54	B	1.1	0.23	mg/Kg	☼	07/25/13 12:30	08/06/13 00:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/15/13 13:30	08/20/13 08:24	1
Chromium	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 08:24	1
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 08:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B09-1

Lab Sample ID: 500-59745-29

Date Collected: 07/24/13 12:05

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 08:24	1
Manganese	1.1		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 08:24	1
Nickel	0.017	J	0.025	0.010	mg/L		08/15/13 13:30	08/20/13 08:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70		0.50	0.010	mg/L		07/29/13 12:00	08/06/13 03:00	1
Beryllium	0.0042		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 03:00	1
Boron	0.81		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 03:00	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 03:00	1
Chromium	0.11		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:00	1
Cobalt	0.040		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 03:00	1
Iron	170		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 03:00	1
Lead	0.094		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 03:00	1
Manganese	0.63		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:00	1
Nickel	0.18		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:00	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 03:00	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 03:00	1
Zinc	0.82		0.10	0.020	mg/L		07/29/13 12:00	08/06/13 03:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:26	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 20:45	1
Thallium	0.0043		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:37	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00024		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 09:54	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.017	0.0082	mg/Kg	☼	07/26/13 14:00	07/29/13 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.82		0.200	0.200	SU			08/04/13 19:25	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B09-2

Lab Sample ID: 500-59745-30

Date Collected: 07/24/13 12:10

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	07/24/13 12:10	07/31/13 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/24/13 12:10	07/31/13 15:57	1
Dibromofluoromethane	99		75 - 120	07/24/13 12:10	07/31/13 15:57	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/24/13 12:10	07/31/13 15:57	1
Toluene-d8 (Surr)	95		75 - 122	07/24/13 12:10	07/31/13 15:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B09-2

Lab Sample ID: 500-59745-30

Date Collected: 07/24/13 12:10

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Dibenzofuran	<0.19		0.19	0.047	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Butyl benzyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B09-2

Lab Sample ID: 500-59745-30

Date Collected: 07/24/13 12:10

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Benzo[a]pyrene	<0.038		0.038	0.0071	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	07/31/13 18:26	08/03/13 05:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		30 - 110	07/31/13 18:26	08/03/13 05:18	1
Phenol-d5	65		31 - 110	07/31/13 18:26	08/03/13 05:18	1
Nitrobenzene-d5	63		30 - 115	07/31/13 18:26	08/03/13 05:18	1
2-Fluorobiphenyl	59		30 - 119	07/31/13 18:26	08/03/13 05:18	1
2,4,6-Tribromophenol	63		35 - 137	07/31/13 18:26	08/03/13 05:18	1
Terphenyl-d14	64		36 - 134	07/31/13 18:26	08/03/13 05:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Arsenic	11		0.57	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Barium	53		0.57	0.061	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Beryllium	0.66		0.23	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Boron	9.7		2.8	0.12	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Cadmium	0.81		0.11	0.014	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Calcium	49000	B	11	3.1	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Chromium	17		0.57	0.066	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Cobalt	6.3		0.28	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Copper	22		0.57	0.050	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Iron	20000		11	4.7	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Lead	10	B	0.28	0.085	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Magnesium	26000	B	5.7	1.2	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Manganese	310	B	0.57	0.031	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Nickel	19	B	0.57	0.056	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Potassium	2800		28	1.7	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Sodium	510		57	7.6	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Vanadium	21	B	0.28	0.042	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1
Zinc	49	B	1.1	0.23	mg/Kg	☼	07/25/13 12:30	08/06/13 00:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 08:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B09-2

Lab Sample ID: 500-59745-30

Date Collected: 07/24/13 12:10

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J	0.50	0.010	mg/L		07/29/13 12:00	08/06/13 03:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 03:04	1
Boron	0.79		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 03:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 03:04	1
Chromium	0.011	J	0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:04	1
Cobalt	0.0051	J	0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 03:04	1
Iron	13		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 03:04	1
Lead	0.0072	J	0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 03:04	1
Manganese	0.14		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:04	1
Nickel	0.013	J	0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:04	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 03:04	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 03:04	1
Zinc	0.38		0.10	0.020	mg/L		07/29/13 12:00	08/06/13 03:04	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 20:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:38	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 09:56	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.0088	mg/Kg	✱	07/26/13 14:00	07/29/13 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28		0.200	0.200	SU			08/04/13 19:28	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B09-3

Lab Sample ID: 500-59745-31

Date Collected: 07/24/13 12:15

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0038		0.0038	0.0016	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Benzene	<0.0038		0.0038	0.00052	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Bromodichloromethane	<0.0038		0.0038	0.00065	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Bromoform	<0.0038		0.0038	0.00087	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Bromomethane	<0.0038		0.0038	0.0011	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Carbon disulfide	<0.0038		0.0038	0.00057	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Carbon tetrachloride	<0.0038		0.0038	0.00069	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Chlorobenzene	<0.0038		0.0038	0.00038	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Chloroethane	<0.0038		0.0038	0.0010	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Chloroform	<0.0038		0.0038	0.00044	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Chloromethane	<0.0038		0.0038	0.00080	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00054	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00050	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Dibromochloromethane	<0.0038		0.0038	0.00066	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
1,1-Dichloroethane	<0.0038		0.0038	0.00060	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
1,2-Dichloroethane	<0.0038		0.0038	0.00056	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
1,1-Dichloroethene	<0.0038		0.0038	0.00061	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
1,2-Dichloropropane	<0.0038		0.0038	0.00057	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.00050	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Ethylbenzene	<0.0038		0.0038	0.00077	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
2-Hexanone	<0.0038		0.0038	0.0011	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Methylene Chloride	<0.0038		0.0038	0.0010	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00099	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00063	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Styrene	<0.0038		0.0038	0.00050	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
1,1,1,2-Tetrachloroethane	<0.0038		0.0038	0.00077	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Tetrachloroethene	<0.0038		0.0038	0.00058	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Toluene	<0.0038		0.0038	0.00053	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00052	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.00068	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00052	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Trichloroethene	<0.0038		0.0038	0.00062	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Vinyl acetate	<0.0038		0.0038	0.00060	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Vinyl chloride	<0.0038		0.0038	0.00080	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1
Xylenes, Total	<0.0076		0.0076	0.00034	mg/Kg	☼	07/24/13 12:15	07/31/13 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	07/24/13 12:15	07/31/13 16:20	1
Dibromofluoromethane	105		75 - 120	07/24/13 12:15	07/31/13 16:20	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	07/24/13 12:15	07/31/13 16:20	1
Toluene-d8 (Surr)	93		75 - 122	07/24/13 12:15	07/31/13 16:20	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	☼	07/31/13 18:26	08/03/13 05:42	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B09-3

Lab Sample ID: 500-59745-31

Date Collected: 07/24/13 12:15

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
2-Methylphenol	<0.18		0.18	0.046	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Hexachloroethane	<0.18		0.18	0.037	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
2-Chlorophenol	<0.18		0.18	0.050	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.038	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Naphthalene	<0.035		0.035	0.0067	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
4-Chloroaniline	<0.70		0.70	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Hexachlorocyclopentadiene	<0.70		0.70	0.16	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
2-Methylnaphthalene	<0.18		0.18	0.045	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
2-Nitroaniline	<0.18		0.18	0.063	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
2,6-Dinitrotoluene	<0.18		0.18	0.041	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
3-Nitroaniline	<0.35		0.35	0.067	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
2,4-Dinitrophenol	<0.70		0.70	0.18	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Acenaphthylene	<0.035		0.035	0.0080	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
2,4-Dinitrotoluene	<0.18		0.18	0.053	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Acenaphthene	<0.035		0.035	0.010	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
4-Nitrophenol	<0.70		0.70	0.19	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Fluorene	<0.035		0.035	0.0079	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
4-Nitroaniline	<0.35		0.35	0.071	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Hexachlorobenzene	<0.070		0.070	0.0069	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Diethyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.055	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Pentachlorophenol	<0.70		0.70	0.18	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
N-Nitrosodiphenylamine	<0.18		0.18	0.047	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.085	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Anthracene	<0.035		0.035	0.0082	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Carbazole	<0.18		0.18	0.049	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Di-n-butyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Fluoranthene	<0.035		0.035	0.014	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Benzo[a]anthracene	<0.035		0.035	0.0073	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B09-3

Lab Sample ID: 500-59745-31

Date Collected: 07/24/13 12:15

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0079	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.046	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Di-n-octyl phthalate	<0.18		0.18	0.071	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Benzo[b]fluoranthene	<0.035		0.035	0.0068	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Benzo[k]fluoranthene	<0.035		0.035	0.0083	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Benzo[a]pyrene	<0.035		0.035	0.0063	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0097	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
3 & 4 Methylphenol	<0.18		0.18	0.066	mg/Kg	☼	07/31/13 18:26	08/03/13 05:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		30 - 110				07/31/13 18:26	08/03/13 05:42	1
Phenol-d5	73		31 - 110				07/31/13 18:26	08/03/13 05:42	1
Nitrobenzene-d5	63		30 - 115				07/31/13 18:26	08/03/13 05:42	1
2-Fluorobiphenyl	63		30 - 119				07/31/13 18:26	08/03/13 05:42	1
2,4,6-Tribromophenol	72		35 - 137				07/31/13 18:26	08/03/13 05:42	1
Terphenyl-d14	56		36 - 134				07/31/13 18:26	08/03/13 05:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Arsenic	7.8		0.52	0.10	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Barium	9.9		0.52	0.056	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Beryllium	0.24		0.21	0.018	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Boron	5.6		2.6	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Cadmium	0.82		0.10	0.013	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Calcium	83000	B	52	14	mg/Kg	☼	07/25/13 12:30	08/06/13 13:51	5
Chromium	5.8		0.52	0.061	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Cobalt	5.8		0.26	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Copper	21		0.52	0.046	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Iron	13000		10	4.3	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Lead	11	B	0.26	0.078	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Magnesium	40000	B	5.2	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Manganese	500	B	0.52	0.028	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Nickel	14	B	0.52	0.051	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Potassium	1100		26	1.6	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Selenium	<0.52		0.52	0.19	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Silver	0.031	J	0.26	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Sodium	300		52	7.0	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Thallium	<0.52		0.52	0.22	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Vanadium	8.6	B	0.26	0.039	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1
Zinc	66	B	1.0	0.21	mg/Kg	☼	07/25/13 12:30	08/06/13 00:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 08:37	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 08:37	1
Manganese	1.7		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 08:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

Client Sample ID: 846D-119-B09-3

Lab Sample ID: 500-59745-31

Date Collected: 07/24/13 12:15

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.62		0.50	0.010	mg/L		07/29/13 12:00	08/06/13 03:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 03:08	1
Boron	0.72		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 03:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 03:08	1
Chromium	0.046		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:08	1
Cobalt	0.0099	J	0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 03:08	1
Iron	56		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 03:08	1
Lead	0.024		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 03:08	1
Manganese	0.25		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:08	1
Nickel	0.043		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:08	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 03:08	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 03:08	1
Zinc	0.41		0.10	0.020	mg/L		07/29/13 12:00	08/06/13 03:08	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 20:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:41	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J	0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 09:58	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.017	0.0082	mg/Kg	☼	07/26/13 14:00	07/29/13 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.50		0.200	0.200	SU			08/04/13 19:30	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-2

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

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.
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

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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact		Laboratory		Project Name: <u>US6/IL7 WILL/COOK CO</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		COC No.: <u>1</u> of <u>2</u> Lab Job No.: <u>500-59745</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.		ANALYSES															
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	
14	846D-119-B01	7/24/13	10:35	S	X	X					X	X	X	X		0'-3'	
15	846D-119-B02		10:40													0'-3'	
16	846D-119-B03		10:45													0'-3'	
17	846D-119-B04		10:50													0'-3'	
18	846D-119-B05		10:55													0'-3'	
19	846D-119-B06-1		11:00													0'-5'	
20	846D-119-B06-1 DUA		11:05													0'-5'	
21	846D-119-B06-2		11:10													0'-5'	
22	846D-119-B06-3		11:15													10'-15'	
23	846D-119-B07-1		11:35													0'-5'	
24	846D-119-B07-2		11:40													5'-10'	
25	846D-119-B07-3		11:40	S	X	X					X	X	X	X		10'-15'	
Relinquished by: <u>Daniel J. MacKinnon CA(EI)</u>		Date/Time: <u>7/24/13 4:15 PM</u>		Received by: <u>[Signature]</u>		Date/Time: <u>7/24/13 4:15 PM</u>		Received by: <u>[Signature]</u>		Date/Time: <u>7/24/13 4:15 PM</u>		Received by: <u>[Signature]</u>		Date/Time: <u>7/24/13 4:15 PM</u>		Date/Time: <u>7/24/13/6:15</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>7/24/13 12:45</u>		Received by: <u>[Signature]</u>		Date/Time: <u>7/24/13 12:45</u>		Received by: <u>[Signature]</u>		Date/Time: <u>7/24/13 12:45</u>		Received by: <u>[Signature]</u>		Date/Time: <u>7/24/13 12:45</u>		Date/Time: <u>7/25/13 06:00</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>7/24/13 12:45</u>		Received by: <u>[Signature]</u>		Date/Time: <u>7/24/13 12:45</u>		Received by: <u>[Signature]</u>		Date/Time: <u>7/24/13 12:45</u>		Received by: <u>[Signature]</u>		Date/Time: <u>7/24/13 12:45</u>		Date/Time: <u>7/25/13 06:00</u>	



CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: <u>US6/IL7 WILL/COOK CO</u>	COC No.: <u>2</u> of <u>2</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>IL DOT 2013-022</u>	Lab Job No.: <u>500-59745</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:
Special Instructions:		Matrix Key:	

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
26	846D-119-B08-1	7/24/13	11:50	S	X	X					X	X	X	X		0'-5'
27	846D-119-B08-2		11:55													5'-10'
28	846D-119-B08-3		12:00													10'-15'
29	846D-119-B09-1		12:05													0'-5'
30	846D-119-B09-2		12:10													5'-10'
31	846D-119-B09-3		12:15													10'-15'
	846D-119-B10-1															
	846D-119-B10-2															
	846D-119-B10-B															
	846D-119-BH															
	846D-119-BILDOP															
	846D-119-B12			S	X	X					X	X	X	X		

Relinquished by: Daniel J. MacLennan (AEI)	Date/Time: 7/24/13 4:15 PM	Received by: [Signature]	Date/Time: 7/24/13/11et5
Relinquished by: [Signature]	Date/Time: 7/24/13/1445	Received by: [Signature]	Date/Time: 7/25/13 0600
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: 500-59840-1
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/15/2013 3:32:06 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

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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 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Client Sample ID: 846D-119-B10-1

Lab Sample ID: 500-59840-1

Date Collected: 07/24/13 12:20

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0039		0.0038	0.0017	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Benzene	<0.0038		0.0038	0.00052	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Bromodichloromethane	<0.0038		0.0038	0.00066	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Bromoform	<0.0038		0.0038	0.00088	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Bromomethane	<0.0038		0.0038	0.0012	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Carbon disulfide	<0.0038		0.0038	0.00057	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Carbon tetrachloride	<0.0038		0.0038	0.00070	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Chlorobenzene	<0.0038		0.0038	0.00039	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Chloroethane	<0.0038		0.0038	0.0010	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Chloroform	<0.0038		0.0038	0.00044	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Chloromethane	<0.0038		0.0038	0.00080	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00054	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00050	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Dibromochloromethane	<0.0038		0.0038	0.00067	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
1,1-Dichloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
1,2-Dichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
1,1-Dichloroethene	<0.0038		0.0038	0.00062	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
1,2-Dichloropropane	<0.0038		0.0038	0.00058	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.00050	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Ethylbenzene	<0.0038		0.0038	0.00077	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
2-Hexanone	<0.0038		0.0038	0.0011	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Methylene Chloride	<0.0038		0.0038	0.0010	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0010	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00063	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Styrene	<0.0038		0.0038	0.00050	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
1,1,1,2-Tetrachloroethane	<0.0038		0.0038	0.00077	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Tetrachloroethene	<0.0038		0.0038	0.00059	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Toluene	<0.0038		0.0038	0.00054	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00053	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.00069	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00052	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Trichloroethene	<0.0038		0.0038	0.00063	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Vinyl acetate	<0.0038		0.0038	0.00060	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Vinyl chloride	<0.0038		0.0038	0.00080	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1
Xylenes, Total	<0.0077		0.0077	0.00035	mg/Kg	☼	07/24/13 12:20	08/01/13 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	07/24/13 12:20	08/01/13 11:04	1
Dibromofluoromethane	104		75 - 120	07/24/13 12:20	08/01/13 11:04	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/24/13 12:20	08/01/13 11:04	1
Toluene-d8 (Surr)	94		75 - 122	07/24/13 12:20	08/01/13 11:04	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	☼	07/26/13 19:39	08/14/13 11:13	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Client Sample ID: 846D-119-B10-1

Lab Sample ID: 500-59840-1

Date Collected: 07/24/13 12:20

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
2,4-Dinitrophenol	<0.73	*	0.73	0.19	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Client Sample ID: 846D-119-B10-1

Lab Sample ID: 500-59840-1

Date Collected: 07/24/13 12:20

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	07/26/13 19:39	08/14/13 11:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		30 - 110	07/26/13 19:39	08/14/13 11:13	1
Phenol-d5	55		31 - 110	07/26/13 19:39	08/14/13 11:13	1
Nitrobenzene-d5	55		30 - 115	07/26/13 19:39	08/14/13 11:13	1
2-Fluorobiphenyl	53		30 - 119	07/26/13 19:39	08/14/13 11:13	1
2,4,6-Tribromophenol	60		35 - 137	07/26/13 19:39	08/14/13 11:13	1
Terphenyl-d14	56		36 - 134	07/26/13 19:39	08/14/13 11:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Arsenic	9.2		0.54	0.11	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Barium	41		0.54	0.058	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Beryllium	0.74		0.22	0.019	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Boron	8.0		2.7	0.11	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Cadmium	0.96 B		0.11	0.014	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Calcium	17000 B		11	2.9	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Chromium	18		0.54	0.063	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Cobalt	11		0.27	0.019	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Copper	25 B		0.54	0.048	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Iron	22000		11	4.5	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Lead	21 B		0.27	0.081	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Magnesium	13000 B		5.4	1.1	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Manganese	390 B		0.54	0.029	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Nickel	28 B		0.54	0.053	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Potassium	1800		27	1.6	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Selenium	0.32 J		0.54	0.19	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Sodium	1700		54	7.3	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Thallium	<0.54		0.54	0.23	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Vanadium	22		0.27	0.040	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1
Zinc	60 B		1.1	0.22	mg/Kg	☼	07/26/13 09:26	08/07/13 19:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 10:00	08/11/13 08:24	1
Chromium	<0.025		0.025	0.010	mg/L		08/08/13 10:00	08/11/13 08:24	1
Iron	<0.20		0.20	0.20	mg/L		08/08/13 10:00	08/11/13 08:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Client Sample ID: 846D-119-B10-1

Lab Sample ID: 500-59840-1

Date Collected: 07/24/13 12:20

Matrix: Solid

Date Received: 07/25/13 12:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/08/13 10:00	08/11/13 08:24	1
Manganese	1.2		0.025	0.010	mg/L		08/08/13 10:00	08/11/13 08:24	1
Nickel	0.010	J	0.025	0.010	mg/L		08/08/13 10:00	08/11/13 08:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47	J B	0.50	0.010	mg/L		07/28/13 15:00	08/05/13 18:06	1
Beryllium	0.0083		0.0040	0.0040	mg/L		07/28/13 15:00	08/05/13 18:06	1
Boron	0.18		0.10	0.050	mg/L		07/28/13 15:00	08/05/13 18:06	1
Cadmium	0.0031	J	0.0050	0.0020	mg/L		07/28/13 15:00	08/05/13 18:06	1
Chromium	0.17		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 18:06	1
Cobalt	0.069		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 18:06	1
Iron	240		0.20	0.20	mg/L		08/06/13 13:00	08/07/13 15:02	1
Lead	0.14		0.0075	0.0050	mg/L		07/28/13 15:00	08/05/13 18:06	1
Manganese	1.3		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 18:06	1
Nickel	0.25		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 18:06	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/05/13 18:06	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 18:06	1
Zinc	0.70	B	0.10	0.020	mg/L		07/28/13 15:00	08/05/13 18:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 10:00	08/14/13 16:05	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/28/13 15:00	08/09/13 15:06	1
Thallium	0.0057		0.0020	0.0020	mg/L		07/28/13 15:00	08/09/13 15:06	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00037		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 11:34	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0083	mg/Kg	☼	07/29/13 13:00	07/30/13 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.70		0.200	0.200	SU			08/08/13 02:09	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Client Sample ID: 846D-119-B10-2

Lab Sample ID: 500-59840-2

Date Collected: 07/24/13 12:25

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.013		0.0044	0.0019	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	07/24/13 12:25	08/01/13 11:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	07/24/13 12:25	08/01/13 11:27	1
Dibromofluoromethane	105		75 - 120	07/24/13 12:25	08/01/13 11:27	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	07/24/13 12:25	08/01/13 11:27	1
Toluene-d8 (Surr)	93		75 - 122	07/24/13 12:25	08/01/13 11:27	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	☼	07/26/13 19:39	08/14/13 11:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Client Sample ID: 846D-119-B10-2

Lab Sample ID: 500-59840-2

Date Collected: 07/24/13 12:25

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
2,4-Dinitrophenol	<0.76	*	0.76	0.19	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Client Sample ID: 846D-119-B10-2

Lab Sample ID: 500-59840-2

Date Collected: 07/24/13 12:25

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Bis(2-ethylhexyl) phthalate	0.74		0.19	0.050	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	07/26/13 19:39	08/14/13 11:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		30 - 110				07/26/13 19:39	08/14/13 11:36	1
Phenol-d5	62		31 - 110				07/26/13 19:39	08/14/13 11:36	1
Nitrobenzene-d5	59		30 - 115				07/26/13 19:39	08/14/13 11:36	1
2-Fluorobiphenyl	56		30 - 119				07/26/13 19:39	08/14/13 11:36	1
2,4,6-Tribromophenol	75		35 - 137				07/26/13 19:39	08/14/13 11:36	1
Terphenyl-d14	64		36 - 134				07/26/13 19:39	08/14/13 11:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Arsenic	7.8		0.58	0.12	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Barium	43		0.58	0.062	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Beryllium	0.56		0.23	0.020	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Boron	5.4		2.9	0.12	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Cadmium	0.91 B		0.12	0.015	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Calcium	34000 B		12	3.1	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Chromium	15		0.58	0.067	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Cobalt	13		0.29	0.021	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Copper	22 B		0.58	0.051	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Iron	19000		12	4.8	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Lead	14 B		0.29	0.086	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Magnesium	19000 B		5.8	1.2	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Manganese	480 B		0.58	0.031	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Nickel	28 B		0.58	0.057	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Potassium	1600		29	1.7	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Sodium	1500		58	7.7	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Thallium	0.34 J		0.58	0.24	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Vanadium	17		0.29	0.043	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1
Zinc	55 B		1.2	0.23	mg/Kg	☼	07/26/13 09:26	08/07/13 19:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 10:00	08/11/13 08:50	1
Chromium	<0.025		0.025	0.010	mg/L		08/08/13 10:00	08/11/13 08:50	1
Iron	<0.20		0.20	0.20	mg/L		08/08/13 10:00	08/11/13 08:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Client Sample ID: 846D-119-B10-2

Lab Sample ID: 500-59840-2

Date Collected: 07/24/13 12:25

Matrix: Solid

Date Received: 07/25/13 12:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/08/13 10:00	08/11/13 08:50	1
Manganese	5.3		0.025	0.010	mg/L		08/08/13 10:00	08/11/13 08:50	1
Nickel	0.025		0.025	0.010	mg/L		08/08/13 10:00	08/11/13 08:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J B	0.50	0.010	mg/L		07/28/13 15:00	08/05/13 18:12	1
Beryllium	0.0058		0.0040	0.0040	mg/L		07/28/13 15:00	08/05/13 18:12	1
Boron	0.19		0.10	0.050	mg/L		07/28/13 15:00	08/05/13 18:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/05/13 18:12	1
Chromium	0.12		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 18:12	1
Cobalt	0.064		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 18:12	1
Iron	150		0.20	0.20	mg/L		08/06/13 13:00	08/07/13 15:08	1
Lead	0.094		0.0075	0.0050	mg/L		07/28/13 15:00	08/05/13 18:12	1
Manganese	1.3		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 18:12	1
Nickel	0.18		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 18:12	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/05/13 18:12	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 18:12	1
Zinc	0.44	B	0.10	0.020	mg/L		07/28/13 15:00	08/05/13 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 10:00	08/14/13 16:18	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/28/13 15:00	08/09/13 15:07	1
Thallium	0.0033		0.0020	0.0020	mg/L		07/28/13 15:00	08/09/13 15:07	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00022		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 11:40	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0083	mg/Kg	☼	07/29/13 13:00	07/30/13 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU			08/08/13 02:37	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Client Sample ID: 846D-119-B10-3

Lab Sample ID: 500-59840-3

Date Collected: 07/24/13 12:30

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.024		0.0046	0.0020	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Benzene	<0.0046		0.0046	0.00062	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Bromoform	<0.0046		0.0046	0.0010	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
2-Butanone (MEK)	0.0055		0.0046	0.0016	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Chloroform	<0.0046		0.0046	0.00052	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Dibromochloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
1,2-Dichloroethane	<0.0046		0.0046	0.00067	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
1,1,1-Dichloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00075	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	07/24/13 12:30	08/01/13 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/24/13 12:30	08/01/13 11:50	1
Dibromofluoromethane	105		75 - 120	07/24/13 12:30	08/01/13 11:50	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/24/13 12:30	08/01/13 11:50	1
Toluene-d8 (Surr)	94		75 - 122	07/24/13 12:30	08/01/13 11:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Client Sample ID: 846D-119-B10-3

Lab Sample ID: 500-59840-3

Date Collected: 07/24/13 12:30

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.052	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
3-Nitroaniline	<0.40		0.40	0.079	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
2,4-Dinitrophenol	<0.82 *		0.82	0.21	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Acenaphthylene	<0.040		0.040	0.0094	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Fluorene	<0.040		0.040	0.0093	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.099	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Anthracene	<0.040		0.040	0.0096	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Client Sample ID: 846D-119-B10-3

Lab Sample ID: 500-59840-3

Date Collected: 07/24/13 12:30

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0092	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Di-n-octyl phthalate	<0.20		0.20	0.083	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Benzo[b]fluoranthene	<0.040		0.040	0.0079	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Benzo[k]fluoranthene	<0.040		0.040	0.0097	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Benzo[a]pyrene	<0.040		0.040	0.0074	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	07/26/13 19:39	08/14/13 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		30 - 110	07/26/13 19:39	08/14/13 11:59	1
Phenol-d5	58		31 - 110	07/26/13 19:39	08/14/13 11:59	1
Nitrobenzene-d5	56		30 - 115	07/26/13 19:39	08/14/13 11:59	1
2-Fluorobiphenyl	55		30 - 119	07/26/13 19:39	08/14/13 11:59	1
2,4,6-Tribromophenol	79		35 - 137	07/26/13 19:39	08/14/13 11:59	1
Terphenyl-d14	64		36 - 134	07/26/13 19:39	08/14/13 11:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Arsenic	10		0.62	0.12	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Barium	56		0.62	0.066	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Beryllium	0.59		0.25	0.022	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Boron	2.7 J		3.1	0.13	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Cadmium	0.50 B		0.12	0.016	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Calcium	5400 B		12	3.3	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Chromium	13		0.62	0.071	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Cobalt	8.4		0.31	0.022	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Copper	16 B		0.62	0.055	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Iron	11000		12	5.1	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Lead	12 B		0.31	0.092	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Magnesium	3900 B		6.2	1.3	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Manganese	350 B		0.62	0.033	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Nickel	21 B		0.62	0.060	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Potassium	980		31	1.9	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Selenium	0.73		0.62	0.22	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Silver	0.030 J		0.31	0.022	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Sodium	110		62	8.3	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Thallium	<0.62		0.62	0.26	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Vanadium	22		0.31	0.046	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1
Zinc	48 B		1.2	0.25	mg/Kg	☼	07/26/13 09:26	08/07/13 19:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.46		0.20	0.20	mg/L		08/08/13 10:00	08/11/13 08:55	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/08/13 10:00	08/11/13 08:55	1
Manganese	6.4		0.025	0.010	mg/L		08/08/13 10:00	08/11/13 08:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Client Sample ID: 846D-119-B10-3

Lab Sample ID: 500-59840-3

Date Collected: 07/24/13 12:30

Matrix: Solid

Date Received: 07/25/13 12:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.24	J B	0.50	0.010	mg/L		07/28/13 15:00	08/05/13 18:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/05/13 18:18	1
Boron	0.29		0.10	0.050	mg/L		07/28/13 15:00	08/05/13 18:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/05/13 18:18	1
Chromium	0.012	J	0.025	0.010	mg/L		07/28/13 15:00	08/05/13 18:18	1
Cobalt	0.0065	J	0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 18:18	1
Iron	11		0.20	0.20	mg/L		08/06/13 13:00	08/07/13 15:14	1
Lead	0.011		0.0075	0.0050	mg/L		07/28/13 15:00	08/05/13 18:18	1
Manganese	0.18		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 18:18	1
Nickel	0.014	J	0.025	0.010	mg/L		07/28/13 15:00	08/05/13 18:18	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/05/13 18:18	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 18:18	1
Zinc	0.15	B	0.10	0.020	mg/L		07/28/13 15:00	08/05/13 18:18	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/28/13 15:00	08/09/13 15:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/28/13 15:00	08/09/13 15:08	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 11:46	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.019	0.0090	mg/Kg	☆	07/29/13 13:00	07/30/13 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.05		0.200	0.200	SU			08/08/13 03:32	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Client Sample ID: 846D-119-B12

Lab Sample ID: 500-59840-6

Date Collected: 07/24/13 12:45

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.028		0.0054	0.0023	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Benzene	<0.0054		0.0054	0.00074	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Bromodichloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
2-Butanone (MEK)	0.0076		0.0054	0.0020	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Carbon disulfide	<0.0054		0.0054	0.00081	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Carbon tetrachloride	<0.0054		0.0054	0.00098	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Chlorobenzene	<0.0054		0.0054	0.00055	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Chloroethane	<0.0054		0.0054	0.0015	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00071	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Dibromochloromethane	<0.0054		0.0054	0.00094	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
1,1-Dichloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
1,1-Dichloroethene	<0.0054		0.0054	0.00087	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
1,2-Dichloropropane	<0.0054		0.0054	0.00082	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00071	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
2-Hexanone	<0.0054		0.0054	0.0016	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00089	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Styrene	<0.0054		0.0054	0.00071	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
1,1,1,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Tetrachloroethene	<0.0054		0.0054	0.00082	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Toluene	<0.0054		0.0054	0.00075	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00074	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00097	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00081	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00074	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Trichloroethene	<0.0054		0.0054	0.00089	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Vinyl acetate	<0.0054		0.0054	0.00085	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	07/24/13 12:45	08/01/13 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/24/13 12:45	08/01/13 12:58	1
Dibromofluoromethane	97		75 - 120	07/24/13 12:45	08/01/13 12:58	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	07/24/13 12:45	08/01/13 12:58	1
Toluene-d8 (Surr)	98		75 - 122	07/24/13 12:45	08/01/13 12:58	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	☼	07/26/13 19:39	08/14/13 13:09	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Client Sample ID: 846D-119-B12

Lab Sample ID: 500-59840-6

Date Collected: 07/24/13 12:45

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
4-Chloroaniline	<0.83		0.83	0.13	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
3-Nitroaniline	<0.41		0.41	0.080	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
2,4-Dinitrophenol	<0.83	*	0.83	0.21	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Acenaphthylene	<0.041		0.041	0.0095	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Fluorene	<0.041		0.041	0.0094	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
4-Nitroaniline	<0.41		0.41	0.085	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Phenanthrene	0.048		0.041	0.017	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Fluoranthene	0.080		0.041	0.017	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Pyrene	0.099		0.041	0.015	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Benzo[a]anthracene	0.055		0.041	0.0087	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Client Sample ID: 846D-119-B12

Lab Sample ID: 500-59840-6

Date Collected: 07/24/13 12:45

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.070		0.041	0.0093	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Di-n-octyl phthalate	<0.21		0.21	0.084	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Benzo[b]fluoranthene	0.079		0.041	0.0080	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Benzo[k]fluoranthene	0.029 J		0.041	0.0098	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Benzo[a]pyrene	0.052		0.041	0.0075	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Indeno[1,2,3-cd]pyrene	0.031 J		0.041	0.014	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Dibenz(a,h)anthracene	0.012 J		0.041	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
Benzo[g,h,i]perylene	0.048		0.041	0.014	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	07/26/13 19:39	08/14/13 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		30 - 110	07/26/13 19:39	08/14/13 13:09	1
Phenol-d5	63		31 - 110	07/26/13 19:39	08/14/13 13:09	1
Nitrobenzene-d5	50		30 - 115	07/26/13 19:39	08/14/13 13:09	1
2-Fluorobiphenyl	53		30 - 119	07/26/13 19:39	08/14/13 13:09	1
2,4,6-Tribromophenol	83		35 - 137	07/26/13 19:39	08/14/13 13:09	1
Terphenyl-d14	82		36 - 134	07/26/13 19:39	08/14/13 13:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Arsenic	8.8		0.62	0.12	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Barium	69		0.62	0.067	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Beryllium	0.71		0.25	0.022	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Boron	3.0 J		3.1	0.13	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Cadmium	0.85 B		0.12	0.016	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Calcium	6500 B		12	3.4	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Chromium	18		0.62	0.072	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Cobalt	11		0.31	0.022	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Copper	21 B		0.62	0.055	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Iron	23000		12	5.1	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Lead	38 B		0.31	0.093	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Magnesium	6000 B		6.2	1.3	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Manganese	470 B		0.62	0.034	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Nickel	20 B		0.62	0.061	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Potassium	1300		31	1.9	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Selenium	0.89		0.62	0.22	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Sodium	2300		62	8.3	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Thallium	<0.62		0.62	0.26	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Vanadium	24		0.31	0.046	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1
Zinc	58 B		1.2	0.25	mg/Kg	☼	07/26/13 09:26	08/07/13 20:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 10:00	08/11/13 09:18	1
Chromium	<0.025		0.025	0.010	mg/L		08/08/13 10:00	08/11/13 09:18	1
Iron	<0.20		0.20	0.20	mg/L		08/08/13 10:00	08/11/13 09:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Client Sample ID: 846D-119-B12

Lab Sample ID: 500-59840-6

Date Collected: 07/24/13 12:45

Matrix: Solid

Date Received: 07/25/13 12:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.11		0.0075	0.0050	mg/L		08/08/13 10:00	08/11/13 09:18	1
Manganese	4.8		0.025	0.010	mg/L		08/08/13 10:00	08/11/13 09:18	1
Nickel	0.017	J	0.025	0.010	mg/L		08/08/13 10:00	08/11/13 09:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.97	B	0.50	0.010	mg/L		07/28/13 15:00	08/05/13 18:56	1
Beryllium	0.0086		0.0040	0.0040	mg/L		07/28/13 15:00	08/05/13 18:56	1
Boron	0.57		0.10	0.050	mg/L		07/28/13 15:00	08/05/13 18:56	1
Cadmium	0.0037	J	0.0050	0.0020	mg/L		07/28/13 15:00	08/05/13 18:56	1
Chromium	0.20		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 18:56	1
Cobalt	0.077		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 18:56	1
Iron	230		0.20	0.20	mg/L		08/06/13 13:00	08/07/13 15:33	1
Lead	0.59		0.0075	0.0050	mg/L		07/28/13 15:00	08/05/13 18:56	1
Manganese	2.4		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 18:56	1
Nickel	0.18		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 18:56	1
Selenium	0.011	J	0.050	0.010	mg/L		07/28/13 15:00	08/05/13 18:56	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 18:56	1
Zinc	0.78	B	0.10	0.020	mg/L		07/28/13 15:00	08/05/13 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 10:00	08/14/13 16:31	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/28/13 15:00	08/09/13 15:15	1
Thallium	0.0035		0.0020	0.0020	mg/L		07/28/13 15:00	08/09/13 15:15	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00047		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 11:52	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.020	0.0094	mg/Kg	☼	07/29/13 13:00	07/30/13 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.59		0.200	0.200	SU			08/08/13 04:56	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-1

Qualifiers

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.

Glossary

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



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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
11578 W 159th St.

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.60044 Longitude: -87.90068
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 351 (U.S. 6/IL 7)
Latitude: 41.60044 Longitude: -87.90068

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 846D-120-B01 WAS SAMPLED ADJACENT TO SITE No. 846D-120. SEE FIGURE 3 AND TABLE 3c OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59840-4

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

I, Steven Gobelman (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 22.51 a] 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: Illinois Department of Transportation, Bureau of Design and Environment

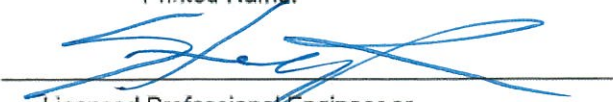
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

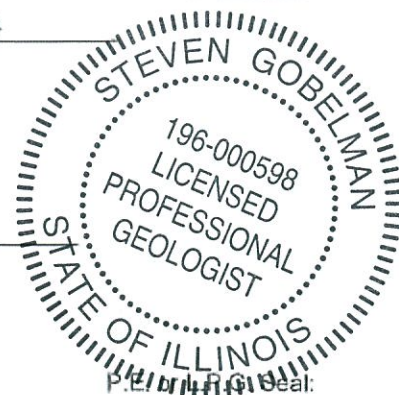
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

9/20/24

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-120
Spring Creek

Sample ID	846D-120-B01								
Sample Depth (ft)	0-3								
Sample Date	7/24/2013								
PID	0								
Sample pH	8.41								
Matrix	Soil								
		1 Most Stringent	2 Outside a	3 Populated	4 Within Chicago	5 Metropolitan	6 Class I Soil		
		MAC	Populated Area	non-Metropolitan	Corporate Limits	Statistical Area	TCLP/SPLP	MAC	Only
			MAC	Statistical Area	MAC	MAC	Comparisons		
No Contaminants of Concern Noted.									

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59840-4
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/15/2013 3:35:38 PM

Richard Wright, Project Manager II
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.

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-4

Client Sample ID: 846D-120-B01

Lab Sample ID: 500-59840-22

Date Collected: 07/24/13 12:50

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0057		0.0057	0.0024	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Benzene	<0.0057		0.0057	0.00078	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Bromodichloromethane	<0.0057		0.0057	0.00098	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Bromoform	<0.0057		0.0057	0.0013	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Bromomethane	<0.0057		0.0057	0.0017	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
2-Butanone (MEK)	<0.0057		0.0057	0.0021	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Carbon disulfide	<0.0057		0.0057	0.00085	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Carbon tetrachloride	<0.0057		0.0057	0.0010	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Chlorobenzene	<0.0057		0.0057	0.00057	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Chloroethane	<0.0057		0.0057	0.0015	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Chloroform	<0.0057		0.0057	0.00065	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Chloromethane	<0.0057		0.0057	0.0012	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.00080	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.00074	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Dibromochloromethane	<0.0057		0.0057	0.00099	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
1,1-Dichloroethane	<0.0057		0.0057	0.00090	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
1,2-Dichloroethane	<0.0057		0.0057	0.00084	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
1,1-Dichloroethene	<0.0057		0.0057	0.00092	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
1,2-Dichloropropane	<0.0057		0.0057	0.00086	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
1,3-Dichloropropene, Total	<0.0057		0.0057	0.00074	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Ethylbenzene	<0.0057		0.0057	0.0011	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
2-Hexanone	<0.0057		0.0057	0.0016	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Methylene Chloride	<0.0057		0.0057	0.0015	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0015	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Methyl tert-butyl ether	<0.0057		0.0057	0.00094	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Styrene	<0.0057		0.0057	0.00074	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
1,1,1,2-Tetrachloroethane	<0.0057		0.0057	0.0011	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Tetrachloroethene	<0.0057		0.0057	0.00087	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Toluene	<0.0057		0.0057	0.00079	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.00078	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.0010	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.00085	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.00077	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Trichloroethene	<0.0057		0.0057	0.00094	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Vinyl acetate	<0.0057		0.0057	0.00089	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Vinyl chloride	<0.0057		0.0057	0.0012	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1
Xylenes, Total	<0.011		0.011	0.00051	mg/Kg	☼	07/24/13 12:50	08/01/13 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	07/24/13 12:50	08/01/13 19:03	1
Dibromofluoromethane	105		75 - 120	07/24/13 12:50	08/01/13 19:03	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	07/24/13 12:50	08/01/13 19:03	1
Toluene-d8 (Surr)	97		75 - 122	07/24/13 12:50	08/01/13 19:03	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	☼	07/26/13 19:52	08/08/13 01:46	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-4

Client Sample ID: 846D-120-B01

Lab Sample ID: 500-59840-22

Date Collected: 07/24/13 12:50

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
2,4-Dinitrophenol	<0.77 *		0.77	0.20	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-4

Client Sample ID: 846D-120-B01

Lab Sample ID: 500-59840-22

Date Collected: 07/24/13 12:50

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.038	0.0086	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Benzo[b]fluoranthene	0.019	J	0.038	0.0074	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Benzo[a]pyrene	0.019	J	0.038	0.0069	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Indeno[1,2,3-cd]pyrene	0.015	J	0.038	0.013	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Benzo[g,h,i]perylene	0.018	J	0.038	0.013	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	07/26/13 19:52	08/08/13 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		30 - 110				07/26/13 19:52	08/08/13 01:46	1
Phenol-d5	37		31 - 110				07/26/13 19:52	08/08/13 01:46	1
Nitrobenzene-d5	40		30 - 115				07/26/13 19:52	08/08/13 01:46	1
2-Fluorobiphenyl	45		30 - 119				07/26/13 19:52	08/08/13 01:46	1
2,4,6-Tribromophenol	41		35 - 137				07/26/13 19:52	08/08/13 01:46	1
Terphenyl-d14	57		36 - 134				07/26/13 19:52	08/08/13 01:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Arsenic	8.1		0.56	0.11	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Barium	34		0.56	0.060	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Beryllium	0.43		0.22	0.020	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Boron	3.7		2.8	0.12	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Cadmium	0.43		0.11	0.014	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Calcium	31000	B	11	3.0	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Chromium	11		0.56	0.065	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Cobalt	7.5		0.28	0.020	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Copper	21	B	0.56	0.050	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Iron	15000		11	4.6	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Lead	14		0.28	0.083	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Magnesium	20000	B	5.6	1.2	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Manganese	330		0.56	0.030	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Nickel	19		0.56	0.055	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Potassium	1200		28	1.7	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Sodium	1200		56	7.5	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Vanadium	15		0.28	0.041	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1
Zinc	41	B	1.1	0.23	mg/Kg	☼	07/28/13 16:30	07/30/13 19:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/08/13 10:00	08/11/13 10:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-4

Client Sample ID: 846D-120-B01

Lab Sample ID: 500-59840-22

Date Collected: 07/24/13 12:50

Matrix: Solid

Date Received: 07/25/13 12:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.42	J	0.50	0.010	mg/L		07/28/13 15:00	08/05/13 17:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/05/13 17:26	1
Boron	0.65		0.10	0.050	mg/L		07/28/13 15:00	08/05/13 17:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/05/13 17:26	1
Chromium	0.010	J	0.025	0.010	mg/L		07/28/13 15:00	08/05/13 17:26	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 17:26	1
Iron	2.9		0.20	0.20	mg/L		08/06/13 13:00	08/07/13 18:35	1
Lead	0.0086		0.0075	0.0050	mg/L		07/28/13 15:00	08/05/13 17:26	1
Manganese	0.032		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 17:26	1
Nickel	<0.025		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 17:26	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/05/13 17:26	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 17:26	1
Zinc	0.31		0.10	0.020	mg/L		07/28/13 15:00	08/05/13 17:26	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/28/13 15:00	08/09/13 15:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/28/13 15:00	08/09/13 15:38	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000048	J	0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 11:01	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.0088	mg/Kg	☆	07/29/13 13:00	07/30/13 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.41		0.200	0.200	SU			08/08/13 12:51	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-4

Qualifiers

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.

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.

Glossary

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



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: <u>US6/IL7 WILL COOK CO</u> Project No.: <u>IDOT 2013-022</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 <u>KA, T</u>		COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-59840</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.		ANALYSES															
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	
17	846D-123-B01	7/24/13	2:35	S	X	X					X	X	X	X		0'-1'	
18	846D-123-B02		2:40	S	X	X					X	X	X	X		0'-1'	
19	846D-123-B02 DUP		2:45	S	X	X					X	X	X	X		0'-1'	
20	846D-123-B03		2:50	S	X	X					X	X	X	X		0'-1'	
21	846D-123-B04		2:55	S	X	X					X	X	X	X		0'-1'	
	846D-123-B05			S	X	X					X	X	X	X			
22	846D-120-B01	07/24/13		S	X	X					X	X	X	X		Added to chart by TestAmerica	
																Personnel: 07/25/13	
Relinquished by:	Jmi Jate			Date/Time	7/25/13 09:12	Received by:				Date/Time	7/25/13 12:00	Received by:				Date/Time	7/25/13/0914
Relinquished by:	Ahe X			Date/Time	7/25/13 12:00	Received by:				Date/Time		Received by:				Date/Time	
Relinquished by:				Date/Time		Received 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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

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

11355 to 11581 W 159th St.

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.60038 Longitude: -87.89798
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 351 (U.S. 6/IL 7)
 Latitude: 41.60038 Longitude: -87.89798

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 846D-121-B01 AND -B05 WERE SAMPLED ADJACENT TO SITE No. 846D-121. SEE FIGURE 4 AND TABLE 3d OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59840-2

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


I, Steven Gobelman (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))

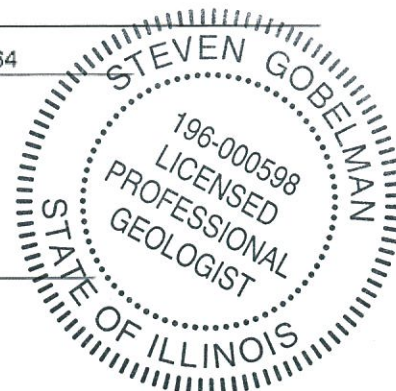
Company Name: Illinois Department of Transportation, Bureau of Design and Environment
 Street Address: 2300 South Dirksen Parkway
 City: Springfield State: IL Zip Code: 62764
 Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

9/20/14
 Date:



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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-121

Farmland and Wooded Area

Sample ID	846D-121-B01	846D-121-B05							
Sample Depth (ft)	0-4	0-4							
Sample Date	7/24/2013	7/24/2013							
PID	0	0							
Sample pH	7.31	8.19							
Matrix	Soil	Soil							

No Contaminants of Concern Noted.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-59840-2

Client Project/Site: IDOT - US 6/IL 7 - WO 022

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

8/15/2013 3:33:12 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

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results through
TotalAccess

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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 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-2

Client Sample ID: 846D-121-B01

Lab Sample ID: 500-59840-7

Date Collected: 07/24/13 13:35

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014		0.0054	0.0023	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Benzene	<0.0054		0.0054	0.00074	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Bromodichloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
2-Butanone (MEK)	<0.0054		0.0054	0.0020	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Carbon disulfide	<0.0054		0.0054	0.00081	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Carbon tetrachloride	<0.0054		0.0054	0.00098	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Chlorobenzene	<0.0054		0.0054	0.00055	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Chloroethane	<0.0054		0.0054	0.0015	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00071	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Dibromochloromethane	<0.0054		0.0054	0.00094	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
1,1-Dichloroethane	<0.0054		0.0054	0.00086	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
1,1-Dichloroethene	<0.0054		0.0054	0.00087	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
1,2-Dichloropropane	<0.0054		0.0054	0.00082	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00071	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
2-Hexanone	<0.0054		0.0054	0.0016	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00089	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Styrene	<0.0054		0.0054	0.00071	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
1,1,1,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Tetrachloroethene	<0.0054		0.0054	0.00083	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Toluene	<0.0054		0.0054	0.00076	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00074	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00097	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00081	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00074	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Trichloroethene	<0.0054		0.0054	0.00089	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Vinyl acetate	<0.0054		0.0054	0.00085	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	07/24/13 13:35	08/01/13 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	07/24/13 13:35	08/01/13 13:22	1
Dibromofluoromethane	93		75 - 120	07/24/13 13:35	08/01/13 13:22	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	07/24/13 13:35	08/01/13 13:22	1
Toluene-d8 (Surr)	101		75 - 122	07/24/13 13:35	08/01/13 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-2

Client Sample ID: 846D-121-B01

Lab Sample ID: 500-59840-7

Date Collected: 07/24/13 13:35

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Hexachlorocyclopentadiene	<0.71		0.71	0.16	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
2,4-Dinitrophenol	<0.71 *		0.71	0.18	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Acenaphthylene	<0.035		0.035	0.0081	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Fluorene	<0.035		0.035	0.0080	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Hexachlorobenzene	<0.071		0.071	0.0070	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Fluoranthene	<0.035		0.035	0.014	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Benzo[a]anthracene	<0.035		0.035	0.0074	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-2

Client Sample ID: 846D-121-B01

Lab Sample ID: 500-59840-7

Date Collected: 07/24/13 13:35

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.035	0.0080	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Benzo[b]fluoranthene	0.016	J	0.035	0.0069	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Benzo[k]fluoranthene	<0.035		0.035	0.0084	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Benzo[a]pyrene	0.0082	J	0.035	0.0064	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	07/26/13 19:39	08/14/13 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		30 - 110				07/26/13 19:39	08/14/13 13:32	1
Phenol-d5	62		31 - 110				07/26/13 19:39	08/14/13 13:32	1
Nitrobenzene-d5	55		30 - 115				07/26/13 19:39	08/14/13 13:32	1
2-Fluorobiphenyl	58		30 - 119				07/26/13 19:39	08/14/13 13:32	1
2,4,6-Tribromophenol	88		35 - 137				07/26/13 19:39	08/14/13 13:32	1
Terphenyl-d14	83		36 - 134				07/26/13 19:39	08/14/13 13:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Arsenic	7.5		0.55	0.11	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Barium	67		0.55	0.059	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Beryllium	0.69		0.22	0.020	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Boron	2.2	J	2.8	0.12	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Cadmium	0.71	B	0.11	0.014	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Calcium	3400	B	11	3.0	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Chromium	16		0.55	0.064	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Cobalt	11		0.28	0.020	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Copper	20	B	0.55	0.049	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Iron	19000		11	4.6	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Lead	25	B	0.28	0.083	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Magnesium	3500	B	5.5	1.1	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Manganese	520	B	0.55	0.030	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Nickel	21	B	0.55	0.054	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Potassium	850		28	1.7	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Selenium	0.88		0.55	0.20	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Sodium	51	J	55	7.4	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Vanadium	23		0.28	0.041	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1
Zinc	58	B	1.1	0.22	mg/Kg	☼	07/26/13 09:26	08/07/13 20:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.24		0.20	0.20	mg/L		08/08/13 10:00	08/11/13 09:23	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/08/13 10:00	08/11/13 09:23	1
Manganese	0.14		0.025	0.010	mg/L		08/08/13 10:00	08/11/13 09:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-2

Client Sample ID: 846D-121-B01

Lab Sample ID: 500-59840-7

Date Collected: 07/24/13 13:35

Matrix: Solid

Date Received: 07/25/13 12:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J B	0.50	0.010	mg/L		07/28/13 15:00	08/05/13 19:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/05/13 19:02	1
Boron	0.46		0.10	0.050	mg/L		07/28/13 15:00	08/05/13 19:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/05/13 19:02	1
Chromium	0.044		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 19:02	1
Cobalt	0.0098	J	0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 19:02	1
Iron	29		0.20	0.20	mg/L		08/06/13 13:00	08/07/13 15:39	1
Lead	0.029		0.0075	0.0050	mg/L		07/28/13 15:00	08/05/13 19:02	1
Manganese	0.17		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 19:02	1
Nickel	0.040		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 19:02	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/05/13 19:02	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 19:02	1
Zinc	0.29	B	0.10	0.020	mg/L		07/28/13 15:00	08/05/13 19:02	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/28/13 15:00	08/09/13 15:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/28/13 15:00	08/09/13 15:16	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000028	J	0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 11:54	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.018	0.0087	mg/Kg	☆	07/29/13 13:00	07/30/13 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.31		0.200	0.200	SU			08/08/13 05:24	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-2

Client Sample ID: 846D-121-B05

Lab Sample ID: 500-59840-16

Date Collected: 07/24/13 14:30

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 91.0

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	☼	07/24/13 14:30	08/01/13 16:46	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
1,2-Dichloropropane	<0.0044		0.0044	0.00066	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Ethylbenzene	<0.0044		0.0044	0.00088	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00088	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00078	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1
Xylenes, Total	<0.0087		0.0087	0.00040	mg/Kg	☼	07/24/13 14:30	08/01/13 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	07/24/13 14:30	08/01/13 16:46	1
Dibromofluoromethane	105		75 - 120	07/24/13 14:30	08/01/13 16:46	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	07/24/13 14:30	08/01/13 16:46	1
Toluene-d8 (Surr)	94		75 - 122	07/24/13 14:30	08/01/13 16:46	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	☼	07/26/13 19:39	08/14/13 17:04	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-2

Client Sample ID: 846D-121-B05

Lab Sample ID: 500-59840-16

Date Collected: 07/24/13 14:30

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
2-Methylphenol	<0.18		0.18	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Hexachloroethane	<0.18		0.18	0.037	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
2-Chlorophenol	<0.18		0.18	0.050	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Naphthalene	0.017	J	0.035	0.0067	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
4-Chloroaniline	<0.70		0.70	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Hexachlorocyclopentadiene	<0.70		0.70	0.16	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
2-Methylnaphthalene	<0.18		0.18	0.045	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
2-Nitroaniline	<0.18		0.18	0.063	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
2,6-Dinitrotoluene	<0.18		0.18	0.041	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
3-Nitroaniline	<0.35		0.35	0.067	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
2,4-Dinitrophenol	<0.70	*	0.70	0.18	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Acenaphthylene	<0.035		0.035	0.0080	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
2,4-Dinitrotoluene	<0.18		0.18	0.053	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Acenaphthene	<0.035		0.035	0.010	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
4-Nitrophenol	<0.70		0.70	0.19	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Fluorene	<0.035		0.035	0.0079	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
4-Nitroaniline	<0.35		0.35	0.072	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Hexachlorobenzene	<0.070		0.070	0.0069	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Diethyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.055	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Pentachlorophenol	<0.70		0.70	0.18	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
N-Nitrosodiphenylamine	<0.18		0.18	0.047	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.085	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Anthracene	<0.035		0.035	0.0082	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Carbazole	<0.18		0.18	0.049	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Di-n-butyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Fluoranthene	<0.035		0.035	0.014	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Benzo[a]anthracene	<0.035		0.035	0.0073	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-2

Client Sample ID: 846D-121-B05

Lab Sample ID: 500-59840-16

Date Collected: 07/24/13 14:30

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0079	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Di-n-octyl phthalate	<0.18		0.18	0.071	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Benzo[b]fluoranthene	<0.035		0.035	0.0068	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Benzo[k]fluoranthene	<0.035		0.035	0.0083	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Benzo[a]pyrene	<0.035		0.035	0.0064	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0097	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1
3 & 4 Methylphenol	<0.18		0.18	0.066	mg/Kg	☼	07/26/13 19:39	08/14/13 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	43		30 - 110	07/26/13 19:39	08/14/13 17:04	1
Phenol-d5	53		31 - 110	07/26/13 19:39	08/14/13 17:04	1
Nitrobenzene-d5	46		30 - 115	07/26/13 19:39	08/14/13 17:04	1
2-Fluorobiphenyl	45		30 - 119	07/26/13 19:39	08/14/13 17:04	1
2,4,6-Tribromophenol	53		35 - 137	07/26/13 19:39	08/14/13 17:04	1
Terphenyl-d14	63		36 - 134	07/26/13 19:39	08/14/13 17:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Arsenic	8.4		0.53	0.11	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Barium	37		0.53	0.057	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Beryllium	0.45		0.21	0.019	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Boron	4.6		2.7	0.11	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Cadmium	1.0 B		0.11	0.014	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Calcium	46000 B		11	2.9	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Chromium	12		0.53	0.062	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Cobalt	9.9		0.27	0.019	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Copper	22 B		0.53	0.047	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Iron	18000		11	4.4	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Lead	13 B		0.27	0.079	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Magnesium	27000 B		5.3	1.1	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Manganese	460 B		0.53	0.029	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Nickel	24 B		0.53	0.052	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Potassium	1300		27	1.6	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Silver	0.019 J		0.27	0.019	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Sodium	120		53	7.1	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Thallium	<0.53		0.53	0.22	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Vanadium	14		0.27	0.039	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1
Zinc	50 B		1.1	0.22	mg/Kg	☼	07/26/13 09:26	08/07/13 21:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/08/13 10:00	08/11/13 10:07	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/08/13 10:00	08/11/13 10:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-2

Client Sample ID: 846D-121-B05

Lab Sample ID: 500-59840-16

Date Collected: 07/24/13 14:30

Matrix: Solid

Date Received: 07/25/13 12:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J B	0.50	0.010	mg/L		07/28/13 15:00	08/05/13 20:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/05/13 20:12	1
Boron	0.63		0.10	0.050	mg/L		07/28/13 15:00	08/05/13 20:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/05/13 20:12	1
Chromium	0.013	J	0.025	0.010	mg/L		07/28/13 15:00	08/05/13 20:12	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 20:12	1
Iron	31		0.20	0.20	mg/L		08/06/13 13:00	08/07/13 17:26	1
Lead	0.0088		0.0075	0.0050	mg/L		07/28/13 15:00	08/05/13 20:12	1
Manganese	0.062		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 20:12	1
Nickel	0.012	J	0.025	0.010	mg/L		07/28/13 15:00	08/05/13 20:12	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/05/13 20:12	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 20:12	1
Zinc	0.31	B	0.10	0.020	mg/L		07/28/13 15:00	08/05/13 20:12	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/28/13 15:00	08/09/13 15:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/28/13 15:00	08/09/13 15:26	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000053	J	0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 12:16	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0082	mg/Kg	☆	07/29/13 13:00	07/30/13 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU			08/08/13 09:35	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-2

Qualifiers

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.

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

Glossary

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



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: US6/IL7 WILL / COOK CO Project No.: IDOT 2013-022 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: Km, T		COC No.: _____ of _____ Lab Job No.: 500-59840 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.				ANALYSES														
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		
7	846D-121-B01	7/24/13	1:35A	S	X						X	X	X	X		0-4'		
8	846D-121-B02-1		1:40AM													0-4'		
9	846D-121-B02-2		1:45AM													4-8'		
10	846D-121-B02-3		1:50AM													8-12'		
11	846D-121-B03-1		1:55AM													0-4'		
12	846D-121-B03-1 DUP		2:00PM													0-4'		
13	846D-121-B03-2		2:05PM													4-8'		
14	846D-121-B03-3		2:10PM													8-12'		
15	846D-121-B04		2:15PM													0-4'		
16	846D-121-B05		2:30 PM	S	X						X	X	X	X				
Relinquished by: Jim Jaska					Date/Time	Received by: [Signature]											Date/Time	9/25/13 09:12
Relinquished by: [Signature]					Date/Time	Received by: [Signature]											Date/Time	7/25/13 12:24
Relinquished by: [Signature]					Date/Time	Received by: [Signature]											Date/Time	7/25/13 12:24



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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

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

11354 to 11580 159th Street

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.60059 Longitude: -87.89908
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 351 (U.S. 6/IL 7)

Latitude: 41.60059 Longitude: -87.89908

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 846D-122-B01 WAS SAMPLED ADJACENT TO SITE No. 846D-122. SEE FIGURE 4 AND TABLE 3e OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59745-3

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

I, Steven Gobelman (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: Illinois Department of Transportation, Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

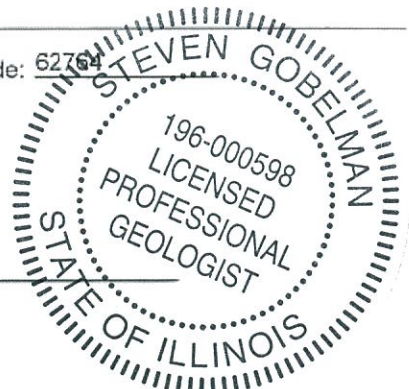
Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

9/20/14
 Date:



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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-122

Residential and Wooded Lots

Sample ID	846D-122-B01	1 Most Stringent	2 Outside a Populated Area	3 Populated non-Metropolitan Statistical Area	4 Within Chicago Corporate Limits	5 Metropolitan Statistical Area	6 Class I Soil
Sample Depth (ft)	0-1	MAC	MAC	MAC	MAC	MAC	TCLP/SPLP Comparisons
Sample Date	7/24/2013						Only
PID	0						
Sample pH	8.19						
Matrix	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59745-3
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/20/2013 1:29:18 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

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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 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-3

Client Sample ID: 846D-122-B01

Lab Sample ID: 500-59745-32

Date Collected: 07/24/13 13:45

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	07/24/13 13:45	07/31/13 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	07/24/13 13:45	07/31/13 16:42	1
Dibromofluoromethane	105		75 - 120	07/24/13 13:45	07/31/13 16:42	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/24/13 13:45	07/31/13 16:42	1
Toluene-d8 (Surr)	96		75 - 122	07/24/13 13:45	07/31/13 16:42	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	☼	07/31/13 18:26	08/03/13 06:05	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-3

Client Sample ID: 846D-122-B01

Lab Sample ID: 500-59745-32

Date Collected: 07/24/13 13:45

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Naphthalene	<0.035		0.035	0.0069	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Hexachlorocyclopentadiene	<0.72		0.72	0.17	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
3-Nitroaniline	<0.35		0.35	0.069	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Acenaphthylene	<0.035		0.035	0.0082	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.087	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Anthracene	<0.035		0.035	0.0084	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Fluoranthene	0.037		0.035	0.015	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Pyrene	0.030 J		0.035	0.013	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Benzo[a]anthracene	0.025 J		0.035	0.0075	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-3

Client Sample ID: 846D-122-B01

Lab Sample ID: 500-59745-32

Date Collected: 07/24/13 13:45

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.040		0.035	0.0081	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Benzo[b]fluoranthene	0.051		0.035	0.0069	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Benzo[k]fluoranthene	<0.035		0.035	0.0085	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Benzo[a]pyrene	0.032 J		0.035	0.0065	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Indeno[1,2,3-cd]pyrene	0.026 J		0.035	0.012	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Dibenz(a,h)anthracene	0.010 J		0.035	0.010	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
Benzo[g,h,i]perylene	0.040		0.035	0.012	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	07/31/13 18:26	08/03/13 06:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		30 - 110	07/31/13 18:26	08/03/13 06:05	1
Phenol-d5	68		31 - 110	07/31/13 18:26	08/03/13 06:05	1
Nitrobenzene-d5	57		30 - 115	07/31/13 18:26	08/03/13 06:05	1
2-Fluorobiphenyl	64		30 - 119	07/31/13 18:26	08/03/13 06:05	1
2,4,6-Tribromophenol	82		35 - 137	07/31/13 18:26	08/03/13 06:05	1
Terphenyl-d14	60		36 - 134	07/31/13 18:26	08/03/13 06:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Arsenic	6.2		0.53	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Barium	61		0.53	0.057	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Beryllium	0.55		0.21	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Boron	11		2.7	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Cadmium	1.0		0.11	0.014	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Calcium	79000 B		53	14	mg/Kg	☼	07/25/13 12:30	08/06/13 13:55	5
Chromium	17		0.53	0.062	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Cobalt	5.8		0.27	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Copper	24		0.53	0.047	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Iron	15000		11	4.4	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Lead	90 B		0.27	0.079	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Magnesium	43000 B		5.3	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Manganese	370 B		0.53	0.029	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Nickel	15 B		0.53	0.052	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Potassium	1800		27	1.6	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Sodium	820		53	7.1	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Thallium	<0.53		0.53	0.22	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Vanadium	16 B		0.27	0.039	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1
Zinc	72 B		1.1	0.22	mg/Kg	☼	07/25/13 12:30	08/06/13 00:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 08:43	1
Lead	0.010		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 08:43	1
Manganese	2.9		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 08:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-3

Client Sample ID: 846D-122-B01

Lab Sample ID: 500-59745-32

Date Collected: 07/24/13 13:45

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71		0.50	0.010	mg/L		07/29/13 12:00	08/06/13 03:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 03:12	1
Boron	0.74		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 03:12	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 03:12	1
Chromium	0.085		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:12	1
Cobalt	0.027		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 03:12	1
Iron	84		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 03:12	1
Lead	0.21		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 03:12	1
Manganese	0.47		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:12	1
Nickel	0.094		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:12	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 03:12	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 03:12	1
Zinc	0.65		0.10	0.020	mg/L		07/29/13 12:00	08/06/13 03:12	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 20:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:42	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 10:00	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.017	0.0079	mg/Kg	☆	07/26/13 14:00	07/29/13 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU			08/04/13 19:33	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-3

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

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



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: <u>US6/IL7 WILL/COOK CO</u> Project No.: <u>IDOT 2013-022</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.: _____ of _____ Lab Job No.: <u>500-59745</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.		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other														
		ANALYSES														
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
32	846D-122-B01	7/24/13	1:45 PM	S	X	X					X	X	X	X		
33	846D-122-B02	(1:35 PM	S	X	X					X	X	X	X		
34	846D-122-B03)	1:30 PM	S	X	X					X	X	X	X		
Relinquished by: <u>Daniel J. MacKinson (A.E.I.)</u>					Date/Time: <u>7/24/13 4:15 PM</u>	Received by: _____										
Relinquished by: _____					Date/Time: <u>7-24-13 4:15</u>	Received by: <u>[Signature]</u>										
Relinquished by: _____					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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
11351 W 159th St.

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.60042 Longitude: -87.89652
(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: 0312315121 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 351 (U.S. 6/IL 7)

Latitude: 41.60042 Longitude: -87.89652

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 846D-123-B01 THRU -B05 WERE SAMPLED ADJACENT TO SITE No. 846D-123. SEE FIGURES 4 & 5, AND TABLE 3f OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59840-3 & 500-59862-1

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

I, Steven Gobelman (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: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

9/20/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-123
Orland Park

Sample ID	846D-123-B01	846D-123-B02	846D-123-B02 DUP	846D-123-B03	846D-123-B04	846D-123-B05	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-1	0-1	0-1	0-1	0-1	0-1						
Sample Date	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/25/2013						
PID	0	0	0	0	0	0						
Sample pH	7.24	8.16	8.69	7.08	7.99	7.42						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						
Semivolatile Organic Compounds (mg/kg)												
Benzo(a)pyrene	ND	0.12	1.2	0.05	J 0.017	0.047	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: 500-59840-3
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/15/2013 3:34:24 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

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results through
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www.testamericainc.com

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

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

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

1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B01

Lab Sample ID: 500-59840-17

Date Collected: 07/24/13 14:35

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 83.0

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	☼	07/24/13 14:35	08/01/13 17:09	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	07/24/13 14:35	08/01/13 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	07/24/13 14:35	08/01/13 17:09	1
Dibromofluoromethane	114		75 - 120	07/24/13 14:35	08/01/13 17:09	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/24/13 14:35	08/01/13 17:09	1
Toluene-d8 (Surr)	95		75 - 122	07/24/13 14:35	08/01/13 17:09	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	☼	07/26/13 19:39	08/14/13 17:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B01

Lab Sample ID: 500-59840-17

Date Collected: 07/24/13 14:35

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
2,4-Dinitrophenol	<0.79	*	0.79	0.20	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B01

Lab Sample ID: 500-59840-17

Date Collected: 07/24/13 14:35

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	07/26/13 19:39	08/14/13 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		30 - 110	07/26/13 19:39	08/14/13 17:27	1
Phenol-d5	55		31 - 110	07/26/13 19:39	08/14/13 17:27	1
Nitrobenzene-d5	53		30 - 115	07/26/13 19:39	08/14/13 17:27	1
2-Fluorobiphenyl	51		30 - 119	07/26/13 19:39	08/14/13 17:27	1
2,4,6-Tribromophenol	66		35 - 137	07/26/13 19:39	08/14/13 17:27	1
Terphenyl-d14	58		36 - 134	07/26/13 19:39	08/14/13 17:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Arsenic	8.9		0.59	0.12	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Barium	59		0.59	0.063	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Beryllium	0.66		0.24	0.021	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Boron	1.8 J		2.9	0.12	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Cadmium	0.58 B		0.12	0.015	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Calcium	1900 B		12	3.2	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Chromium	17		0.59	0.068	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Cobalt	9.5		0.29	0.021	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Copper	18 B		0.59	0.052	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Iron	22000		12	4.8	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Lead	19 B		0.29	0.088	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Magnesium	3900 B		5.9	1.2	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Manganese	340 B		0.59	0.032	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Nickel	22 B		0.59	0.058	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Potassium	1100		29	1.8	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Selenium	1.2		0.59	0.21	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Sodium	110		59	7.9	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Thallium	<0.59		0.59	0.25	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Vanadium	21		0.29	0.044	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1
Zinc	50 B		1.2	0.24	mg/Kg	☼	07/26/13 09:26	08/07/13 21:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.1		0.20	0.20	mg/L		08/08/13 10:00	08/11/13 10:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B01

Lab Sample ID: 500-59840-17

Date Collected: 07/24/13 14:35

Matrix: Solid

Date Received: 07/25/13 12:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.40	J B	0.50	0.010	mg/L		07/28/13 15:00	08/05/13 20:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/05/13 20:19	1
Boron	0.51		0.10	0.050	mg/L		07/28/13 15:00	08/05/13 20:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/05/13 20:19	1
Chromium	0.011	J	0.025	0.010	mg/L		07/28/13 15:00	08/05/13 20:19	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 20:19	1
Iron	47		0.20	0.20	mg/L		08/06/13 13:00	08/07/13 17:32	1
Lead	0.0072	J	0.0075	0.0050	mg/L		07/28/13 15:00	08/05/13 20:19	1
Manganese	0.054		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 20:19	1
Nickel	<0.025		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 20:19	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/05/13 20:19	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 20:19	1
Zinc	0.24	B	0.10	0.020	mg/L		07/28/13 15:00	08/05/13 20:19	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/28/13 15:00	08/09/13 15:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/28/13 15:00	08/09/13 15:27	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000053	J	0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 12:18	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.018	0.0085	mg/Kg	☆	07/29/13 13:00	07/30/13 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.24		0.200	0.200	SU			08/08/13 10:03	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B02

Lab Sample ID: 500-59840-18

Date Collected: 07/24/13 14:40

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0065		0.0065	0.0028	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Benzene	<0.0065		0.0065	0.00089	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Bromodichloromethane	<0.0065		0.0065	0.0011	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Bromoform	<0.0065		0.0065	0.0015	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Bromomethane	<0.0065		0.0065	0.0020	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
2-Butanone (MEK)	<0.0065		0.0065	0.0024	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Carbon disulfide	<0.0065		0.0065	0.00097	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Carbon tetrachloride	<0.0065		0.0065	0.0012	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Chlorobenzene	<0.0065		0.0065	0.00066	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Chloroethane	<0.0065		0.0065	0.0018	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Chloroform	<0.0065		0.0065	0.00075	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Chloromethane	<0.0065		0.0065	0.0014	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
cis-1,2-Dichloroethene	<0.0065		0.0065	0.00092	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
cis-1,3-Dichloropropene	<0.0065		0.0065	0.00085	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Dibromochloromethane	<0.0065		0.0065	0.0011	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
1,1-Dichloroethane	<0.0065		0.0065	0.0010	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
1,2-Dichloroethane	<0.0065		0.0065	0.00096	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
1,1-Dichloroethene	<0.0065		0.0065	0.0011	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
1,2-Dichloropropane	<0.0065		0.0065	0.00099	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
1,3-Dichloropropene, Total	<0.0065		0.0065	0.00085	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Ethylbenzene	<0.0065		0.0065	0.0013	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
2-Hexanone	<0.0065		0.0065	0.0019	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Methylene Chloride	<0.0065		0.0065	0.0018	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
4-Methyl-2-pentanone (MIBK)	<0.0065		0.0065	0.0017	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Methyl tert-butyl ether	<0.0065		0.0065	0.0011	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Styrene	<0.0065		0.0065	0.00085	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
1,1,2,2-Tetrachloroethane	<0.0065		0.0065	0.0013	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Tetrachloroethene	<0.0065		0.0065	0.00099	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Toluene	<0.0065		0.0065	0.00091	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
trans-1,2-Dichloroethene	<0.0065		0.0065	0.00089	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
trans-1,3-Dichloropropene	<0.0065		0.0065	0.0012	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
1,1,1-Trichloroethane	<0.0065		0.0065	0.00097	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
1,1,2-Trichloroethane	<0.0065		0.0065	0.00089	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Trichloroethene	<0.0065		0.0065	0.0011	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Vinyl acetate	<0.0065		0.0065	0.0010	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Vinyl chloride	<0.0065		0.0065	0.0014	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1
Xylenes, Total	<0.013		0.013	0.00059	mg/Kg	☼	07/24/13 14:40	08/01/13 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	07/24/13 14:40	08/01/13 17:32	1
Dibromofluoromethane	105		75 - 120	07/24/13 14:40	08/01/13 17:32	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	07/24/13 14:40	08/01/13 17:32	1
Toluene-d8 (Surr)	93		75 - 122	07/24/13 14:40	08/01/13 17:32	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	☼	07/26/13 19:39	08/14/13 17:51	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B02

Lab Sample ID: 500-59840-18

Date Collected: 07/24/13 14:40

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
2-Chlorophenol	<0.18		0.18	0.050	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Hexachlorocyclopentadiene	<0.71		0.71	0.16	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
2,4-Dinitrophenol	<0.71 *		0.71	0.18	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Acenaphthylene	<0.035		0.035	0.0081	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Fluorene	<0.035		0.035	0.0080	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
4-Nitroaniline	<0.35		0.35	0.072	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Hexachlorobenzene	<0.071		0.071	0.0069	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Phenanthrene	0.092		0.035	0.015	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Fluoranthene	0.22		0.035	0.014	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Pyrene	0.22		0.035	0.013	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Benzo[a]anthracene	0.095		0.035	0.0074	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B02

Lab Sample ID: 500-59840-18

Date Collected: 07/24/13 14:40

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.14		0.035	0.0080	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Benzo[b]fluoranthene	0.25		0.035	0.0069	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Benzo[k]fluoranthene	0.065		0.035	0.0084	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Benzo[a]pyrene	0.12		0.035	0.0064	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Indeno[1,2,3-cd]pyrene	0.099		0.035	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Dibenz(a,h)anthracene	0.029	J	0.035	0.0099	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Benzo[g,h,i]perylene	0.15		0.035	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	07/26/13 19:39	08/14/13 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		30 - 110				07/26/13 19:39	08/14/13 17:51	1
Phenol-d5	64		31 - 110				07/26/13 19:39	08/14/13 17:51	1
Nitrobenzene-d5	57		30 - 115				07/26/13 19:39	08/14/13 17:51	1
2-Fluorobiphenyl	57		30 - 119				07/26/13 19:39	08/14/13 17:51	1
2,4,6-Tribromophenol	79		35 - 137				07/26/13 19:39	08/14/13 17:51	1
Terphenyl-d14	76		36 - 134				07/26/13 19:39	08/14/13 17:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.2		5.2	2.1	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Arsenic	3.3		2.6	0.52	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Barium	26		2.6	0.28	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Beryllium	0.30	J	1.0	0.092	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Boron	9.0	J	13	0.55	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Cadmium	0.46	J B	0.52	0.066	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Calcium	150000	B	52	14	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Chromium	11		2.6	0.30	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Cobalt	5.6		1.3	0.093	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Copper	15	B	2.6	0.23	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Iron	8200		52	21	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Lead	31	B	1.3	0.39	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Magnesium	96000	B	26	5.4	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Manganese	320	B	2.6	0.14	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Nickel	11	B	2.6	0.25	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Potassium	590		130	7.8	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Selenium	<2.6		2.6	0.92	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Silver	<1.3		1.3	0.094	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Sodium	240	J	260	35	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Thallium	<2.6		2.6	1.1	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Vanadium	8.9		1.3	0.19	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5
Zinc	51	B	5.2	1.0	mg/Kg	☼	07/26/13 09:26	08/11/13 01:36	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J B	0.50	0.010	mg/L		07/28/13 15:00	08/05/13 20:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/05/13 20:40	1
Boron	0.69		0.10	0.050	mg/L		07/28/13 15:00	08/05/13 20:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B02

Lab Sample ID: 500-59840-18

Date Collected: 07/24/13 14:40

Matrix: Solid

Date Received: 07/25/13 12:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/05/13 20:40	1
Chromium	0.013	J	0.025	0.010	mg/L		07/28/13 15:00	08/05/13 20:40	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 20:40	1
Iron	3.0		0.20	0.20	mg/L		08/06/13 13:00	08/07/13 17:39	1
Lead	0.023		0.0075	0.0050	mg/L		07/28/13 15:00	08/05/13 20:40	1
Manganese	0.047		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 20:40	1
Nickel	<0.025		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 20:40	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/05/13 20:40	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 20:40	1
Zinc	0.34	B	0.10	0.020	mg/L		07/28/13 15:00	08/05/13 20:40	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/28/13 15:00	08/09/13 15:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/28/13 15:00	08/09/13 15:28	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 12:19	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0091	J	0.017	0.0080	mg/Kg	☆	07/29/13 13:00	07/30/13 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.16		0.200	0.200	SU			08/08/13 10:31	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B02 Dup

Lab Sample ID: 500-59840-19

Date Collected: 07/24/13 14:45

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0058		0.0049	0.0021	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Vinyl acetate	<0.0049		0.0049	0.00078	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	07/24/13 14:45	08/02/13 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	07/24/13 14:45	08/02/13 12:23	1
Dibromofluoromethane	98		75 - 120	07/24/13 14:45	08/02/13 12:23	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	07/24/13 14:45	08/02/13 12:23	1
Toluene-d8 (Surr)	96		75 - 122	07/24/13 14:45	08/02/13 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.16		0.16	0.052	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Bis(2-chloroethyl)ether	<0.16		0.16	0.048	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
1,3-Dichlorobenzene	<0.16		0.16	0.034	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
1,4-Dichlorobenzene	<0.16		0.16	0.034	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B02 Dup

Lab Sample ID: 500-59840-19

Date Collected: 07/24/13 14:45

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.16		0.16	0.036	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
2-Methylphenol	<0.16		0.16	0.043	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
2,2'-oxybis[1-chloropropane]	<0.16		0.16	0.036	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
N-Nitrosodi-n-propylamine	<0.16		0.16	0.041	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Hexachloroethane	<0.16		0.16	0.035	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
2-Chlorophenol	<0.16		0.16	0.047	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Nitrobenzene	<0.032		0.032	0.010	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Bis(2-chloroethoxy)methane	<0.16		0.16	0.036	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
1,2,4-Trichlorobenzene	<0.16		0.16	0.037	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Isophorone	<0.16		0.16	0.036	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
2,4-Dimethylphenol	<0.32		0.32	0.10	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Hexachlorobutadiene	<0.16		0.16	0.043	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Naphthalene	<0.032		0.032	0.0063	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
2,4-Dichlorophenol	<0.32		0.32	0.099	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
4-Chloroaniline	<0.66		0.66	0.099	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
2,4,6-Trichlorophenol	<0.32		0.32	0.041	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
2,4,5-Trichlorophenol	<0.32		0.32	0.093	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Hexachlorocyclopentadiene	<0.66		0.66	0.15	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
2-Methylnaphthalene	<0.16		0.16	0.042	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
2-Nitroaniline	<0.16		0.16	0.059	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
2-Chloronaphthalene	<0.16		0.16	0.037	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
4-Chloro-3-methylphenol	<0.32		0.32	0.16	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
2,6-Dinitrotoluene	<0.16		0.16	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
2-Nitrophenol	<0.32		0.32	0.051	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
3-Nitroaniline	<0.32		0.32	0.063	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Dimethyl phthalate	<0.16		0.16	0.041	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
2,4-Dinitrophenol	<0.66 *		0.66	0.17	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Acenaphthylene	<0.032		0.032	0.0075	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
2,4-Dinitrotoluene	<0.16		0.16	0.050	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Acenaphthene	<0.032		0.032	0.0097	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Dibenzofuran	<0.16		0.16	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
4-Nitrophenol	<0.66		0.66	0.18	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Fluorene	<0.032		0.032	0.0074	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
4-Nitroaniline	<0.32		0.32	0.067	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
4-Bromophenyl phenyl ether	<0.16		0.16	0.036	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Hexachlorobenzene	<0.066		0.066	0.0064	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Diethyl phthalate	<0.16		0.16	0.054	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
4-Chlorophenyl phenyl ether	<0.16		0.16	0.051	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Pentachlorophenol	<0.66		0.66	0.17	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
N-Nitrosodiphenylamine	<0.16		0.16	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
4,6-Dinitro-2-methylphenol	<0.32		0.32	0.079	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Phenanthrene	0.032		0.032	0.014	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Anthracene	<0.032		0.032	0.0077	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Carbazole	<0.16		0.16	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Di-n-butyl phthalate	<0.16		0.16	0.041	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Fluoranthene	0.092		0.032	0.013	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Pyrene	0.079		0.032	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Butyl benzyl phthalate	<0.16		0.16	0.041	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Benzo[a]anthracene	0.039		0.032	0.0068	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B02 Dup

Lab Sample ID: 500-59840-19

Date Collected: 07/24/13 14:45

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.064		0.032	0.0073	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
3,3'-Dichlorobenzidine	<0.16		0.16	0.027	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Bis(2-ethylhexyl) phthalate	<0.16		0.16	0.043	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Di-n-octyl phthalate	<0.16		0.16	0.066	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Benzo[b]fluoranthene	0.11		0.032	0.0063	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Benzo[k]fluoranthene	0.034		0.032	0.0078	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Benzo[a]pyrene	0.050		0.032	0.0059	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Indeno[1,2,3-cd]pyrene	0.041		0.032	0.011	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Dibenz(a,h)anthracene	0.012 J		0.032	0.0091	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
Benzo[g,h,i]perylene	0.072		0.032	0.011	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1
3 & 4 Methylphenol	<0.16		0.16	0.062	mg/Kg	☼	07/26/13 19:39	08/14/13 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	43		30 - 110	07/26/13 19:39	08/14/13 18:14	1
Phenol-d5	52		31 - 110	07/26/13 19:39	08/14/13 18:14	1
Nitrobenzene-d5	47		30 - 115	07/26/13 19:39	08/14/13 18:14	1
2-Fluorobiphenyl	46		30 - 119	07/26/13 19:39	08/14/13 18:14	1
2,4,6-Tribromophenol	63		35 - 137	07/26/13 19:39	08/14/13 18:14	1
Terphenyl-d14	53		36 - 134	07/26/13 19:39	08/14/13 18:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<4.9		4.9	2.0	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Arsenic	1.3 J		2.4	0.48	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Barium	6.6		2.4	0.26	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Beryllium	0.20 J		0.97	0.086	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Boron	13		12	0.51	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Cadmium	0.35 J B		0.49	0.062	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Calcium	200000 B		97	26	mg/Kg	☼	07/26/13 09:26	08/12/13 12:46	10
Chromium	4.7		2.4	0.28	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Cobalt	2.0		1.2	0.087	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Copper	4.5 B		2.4	0.22	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Iron	3300		49	20	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Lead	14 B		1.2	0.36	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Magnesium	120000 B		24	5.0	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Manganese	220 B		2.4	0.13	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Nickel	4.4 B		2.4	0.24	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Potassium	460		120	7.3	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Selenium	<2.4		2.4	0.86	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Silver	<1.2		1.2	0.088	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Sodium	230 J		240	33	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Thallium	<2.4		2.4	1.0	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Vanadium	3.8		1.2	0.18	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5
Zinc	14 B		4.9	0.98	mg/Kg	☼	07/26/13 09:26	08/11/13 01:41	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.37 J B		0.50	0.010	mg/L		07/28/13 15:00	08/05/13 20:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/05/13 20:46	1
Boron	0.61		0.10	0.050	mg/L		07/28/13 15:00	08/05/13 20:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B02 Dup

Lab Sample ID: 500-59840-19

Date Collected: 07/24/13 14:45

Matrix: Solid

Date Received: 07/25/13 12:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/05/13 20:46	1
Chromium	<0.025		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 20:46	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 20:46	1
Iron	1.9		0.20	0.20	mg/L		08/06/13 13:00	08/07/13 17:45	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/28/13 15:00	08/05/13 20:46	1
Manganese	0.019	J	0.025	0.010	mg/L		07/28/13 15:00	08/05/13 20:46	1
Nickel	<0.025		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 20:46	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/05/13 20:46	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 20:46	1
Zinc	0.29	B	0.10	0.020	mg/L		07/28/13 15:00	08/05/13 20:46	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/28/13 15:00	08/09/13 15:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/28/13 15:00	08/09/13 15:29	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 12:21	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.015		0.015	0.0072	mg/Kg	☆	07/29/13 13:00	07/30/13 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.69		0.200	0.200	SU			08/08/13 10:59	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B03

Lab Sample ID: 500-59840-20

Date Collected: 07/24/13 14:50

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 88.4

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	☼	07/24/13 14:50	08/01/13 18:17	1
Benzene	<0.0058		0.0058	0.00080	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Bromodichloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Bromoform	<0.0058		0.0058	0.0013	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Bromomethane	<0.0058		0.0058	0.0018	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
2-Butanone (MEK)	<0.0058		0.0058	0.0021	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Carbon disulfide	<0.0058		0.0058	0.00087	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Carbon tetrachloride	<0.0058		0.0058	0.0011	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Chlorobenzene	<0.0058		0.0058	0.00059	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Chloroethane	<0.0058		0.0058	0.0016	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Chloroform	<0.0058		0.0058	0.00067	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Chloromethane	<0.0058		0.0058	0.0012	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
cis-1,2-Dichloroethene	<0.0058		0.0058	0.00082	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
cis-1,3-Dichloropropene	<0.0058		0.0058	0.00077	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Dibromochloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
1,1-Dichloroethane	<0.0058		0.0058	0.00092	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
1,2-Dichloroethane	<0.0058		0.0058	0.00086	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
1,1-Dichloroethene	<0.0058		0.0058	0.00094	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
1,2-Dichloropropane	<0.0058		0.0058	0.00089	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
1,3-Dichloropropene, Total	<0.0058		0.0058	0.00077	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Ethylbenzene	<0.0058		0.0058	0.0012	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
2-Hexanone	<0.0058		0.0058	0.0017	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Methylene Chloride	<0.0058		0.0058	0.0016	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0015	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Methyl tert-butyl ether	<0.0058		0.0058	0.00096	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Styrene	<0.0058		0.0058	0.00077	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
1,1,1,2-Tetrachloroethane	<0.0058		0.0058	0.0012	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Tetrachloroethene	<0.0058		0.0058	0.00089	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Toluene	<0.0058		0.0058	0.00082	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
trans-1,2-Dichloroethene	<0.0058		0.0058	0.00080	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
trans-1,3-Dichloropropene	<0.0058		0.0058	0.0010	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
1,1,1-Trichloroethane	<0.0058		0.0058	0.00087	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
1,1,2-Trichloroethane	<0.0058		0.0058	0.00080	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Trichloroethene	<0.0058		0.0058	0.00096	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Vinyl acetate	<0.0058		0.0058	0.00092	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Vinyl chloride	<0.0058		0.0058	0.0012	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1
Xylenes, Total	<0.012		0.012	0.00053	mg/Kg	☼	07/24/13 14:50	08/01/13 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	07/24/13 14:50	08/01/13 18:17	1
Dibromofluoromethane	109		75 - 120	07/24/13 14:50	08/01/13 18:17	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/24/13 14:50	08/01/13 18:17	1
Toluene-d8 (Surr)	92		75 - 122	07/24/13 14:50	08/01/13 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	0.058	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B03

Lab Sample ID: 500-59840-20

Date Collected: 07/24/13 14:50

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
2,4-Dinitrophenol	<0.74 *		0.74	0.19	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Phenanthrene	0.045		0.036	0.015	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Fluoranthene	0.026 J		0.036	0.015	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Pyrene	0.035 J		0.036	0.013	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Benzo[a]anthracene	0.019 J		0.036	0.0077	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B03

Lab Sample ID: 500-59840-20

Date Collected: 07/24/13 14:50

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.025	J	0.036	0.0083	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Benzo[b]fluoranthene	0.040		0.036	0.0071	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Benzo[k]fluoranthene	0.013	J	0.036	0.0087	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Benzo[a]pyrene	0.017	J	0.036	0.0067	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Indeno[1,2,3-cd]pyrene	0.015	J	0.036	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Benzo[g,h,i]perylene	0.023	J	0.036	0.012	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	07/26/13 19:39	08/14/13 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	39		30 - 110				07/26/13 19:39	08/14/13 18:38	1
Phenol-d5	44		31 - 110				07/26/13 19:39	08/14/13 18:38	1
Nitrobenzene-d5	40		30 - 115				07/26/13 19:39	08/14/13 18:38	1
2-Fluorobiphenyl	43		30 - 119				07/26/13 19:39	08/14/13 18:38	1
2,4,6-Tribromophenol	64		35 - 137				07/26/13 19:39	08/14/13 18:38	1
Terphenyl-d14	56		36 - 134				07/26/13 19:39	08/14/13 18:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Arsenic	6.7		0.56	0.11	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Barium	70		0.56	0.060	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Beryllium	0.61		0.22	0.020	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Boron	2.9		2.8	0.12	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Cadmium	0.71	B	0.11	0.014	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Calcium	8100	B	11	3.0	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Chromium	13		0.56	0.065	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Cobalt	9.6		0.28	0.020	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Copper	15	B	0.56	0.050	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Iron	16000		11	4.6	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Lead	58	B	0.28	0.083	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Magnesium	5400	B	5.6	1.1	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Manganese	460	B	0.56	0.030	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Nickel	14	B	0.56	0.055	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Potassium	1100		28	1.7	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Selenium	0.81		0.56	0.20	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Sodium	78		56	7.5	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Vanadium	18		0.28	0.041	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1
Zinc	77	B	1.1	0.23	mg/Kg	☼	07/26/13 09:26	08/07/13 22:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.31		0.20	0.20	mg/L		08/08/13 10:00	08/11/13 10:18	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/08/13 10:00	08/11/13 10:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B03

Lab Sample ID: 500-59840-20

Date Collected: 07/24/13 14:50

Matrix: Solid

Date Received: 07/25/13 12:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.010	mg/L		07/28/13 15:00	08/05/13 16:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/05/13 16:55	1
Boron	0.77		0.10	0.050	mg/L		07/28/13 15:00	08/05/13 16:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/05/13 16:55	1
Chromium	0.015	J	0.025	0.010	mg/L		07/28/13 15:00	08/05/13 16:55	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 16:55	1
Iron	19		0.20	0.20	mg/L		08/06/13 13:00	08/07/13 18:08	1
Lead	0.013		0.0075	0.0050	mg/L		07/28/13 15:00	08/05/13 16:55	1
Manganese	0.062		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 16:55	1
Nickel	0.012	J	0.025	0.010	mg/L		07/28/13 15:00	08/05/13 16:55	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/05/13 16:55	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 16:55	1
Zinc	0.39		0.10	0.020	mg/L		07/28/13 15:00	08/05/13 16:55	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/28/13 15:00	08/09/13 15:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/28/13 15:00	08/09/13 15:32	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000025	J	0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 10:57	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.017	0.0082	mg/Kg	☆	07/29/13 13:00	07/30/13 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.08		0.200	0.200	SU			08/08/13 11:55	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B04

Lab Sample ID: 500-59840-21

Date Collected: 07/24/13 14:55

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0095		0.0052	0.0022	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00086	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Vinyl acetate	<0.0052		0.0052	0.00082	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	07/24/13 14:55	08/01/13 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	07/24/13 14:55	08/01/13 18:40	1
Dibromofluoromethane	104		75 - 120	07/24/13 14:55	08/01/13 18:40	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	07/24/13 14:55	08/01/13 18:40	1
Toluene-d8 (Surr)	93		75 - 122	07/24/13 14:55	08/01/13 18:40	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	☼	07/26/13 19:52	08/08/13 01:26	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B04

Lab Sample ID: 500-59840-21

Date Collected: 07/24/13 14:55

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
2,4-Dimethylphenol	<0.33		0.33	0.11	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Naphthalene	<0.033		0.033	0.0065	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
4-Chloroaniline	<0.68		0.68	0.10	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
2,4,5-Trichlorophenol	<0.33		0.33	0.096	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Hexachlorocyclopentadiene	<0.68		0.68	0.16	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
2-Nitroaniline	<0.17		0.17	0.061	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
2-Nitrophenol	<0.33		0.33	0.053	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
3-Nitroaniline	<0.33		0.33	0.065	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
2,4-Dinitrophenol	<0.68	*	0.68	0.17	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Acenaphthylene	<0.033		0.033	0.0077	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Acenaphthene	<0.033		0.033	0.010	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
4-Nitrophenol	<0.68		0.68	0.18	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Fluorene	<0.033		0.033	0.0076	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
4-Nitroaniline	<0.33		0.33	0.069	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Hexachlorobenzene	<0.068		0.068	0.0066	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.053	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Pentachlorophenol	<0.68		0.68	0.17	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.082	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Phenanthrene	0.025	J	0.033	0.014	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Anthracene	0.011	J	0.033	0.0079	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Fluoranthene	0.056		0.033	0.014	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Pyrene	0.056		0.033	0.012	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Benzo[a]anthracene	0.035		0.033	0.0070	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B04

Lab Sample ID: 500-59840-21

Date Collected: 07/24/13 14:55

Matrix: Solid

Date Received: 07/25/13 12:24

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.044		0.033	0.0076	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Di-n-octyl phthalate	<0.17		0.17	0.068	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Benzo[b]fluoranthene	0.061		0.033	0.0065	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Benzo[k]fluoranthene	0.030 J		0.033	0.0080	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Benzo[a]pyrene	0.047		0.033	0.0061	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Indeno[1,2,3-cd]pyrene	0.036		0.033	0.011	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Dibenz(a,h)anthracene	0.019 J		0.033	0.0094	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Benzo[g,h,i]perylene	0.044		0.033	0.011	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
3 & 4 Methylphenol	<0.17		0.17	0.064	mg/Kg	☼	07/26/13 19:52	08/08/13 01:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		30 - 110				07/26/13 19:52	08/08/13 01:26	1
Phenol-d5	49		31 - 110				07/26/13 19:52	08/08/13 01:26	1
Nitrobenzene-d5	51		30 - 115				07/26/13 19:52	08/08/13 01:26	1
2-Fluorobiphenyl	62		30 - 119				07/26/13 19:52	08/08/13 01:26	1
2,4,6-Tribromophenol	61		35 - 137				07/26/13 19:52	08/08/13 01:26	1
Terphenyl-d14	84		36 - 134				07/26/13 19:52	08/08/13 01:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Arsenic	4.9		0.52	0.10	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Barium	43		0.52	0.056	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Beryllium	0.37		0.21	0.018	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Boron	5.5		2.6	0.11	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Cadmium	0.47		0.10	0.013	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Calcium	100000 B		100	28	mg/Kg	☼	07/28/13 16:30	08/01/13 06:30	10
Chromium	8.3		0.52	0.060	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Cobalt	4.8		0.26	0.019	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Copper	13 B		0.52	0.046	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Iron	10000		10	4.3	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Lead	18		0.26	0.077	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Magnesium	46000 B		5.2	1.1	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Manganese	330		0.52	0.028	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Nickel	11		0.52	0.051	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Potassium	1100		26	1.6	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Selenium	<0.52		0.52	0.18	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Silver	0.026 J		0.26	0.019	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Sodium	160		52	7.0	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Thallium	<0.52		0.52	0.22	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Vanadium	11		0.26	0.038	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1
Zinc	37 B		1.0	0.21	mg/Kg	☼	07/28/13 16:30	07/30/13 19:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 10:00	08/11/13 10:23	1
Chromium	<0.025		0.025	0.010	mg/L		08/08/13 10:00	08/11/13 10:23	1
Iron	<0.20		0.20	0.20	mg/L		08/08/13 10:00	08/11/13 10:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Client Sample ID: 846D-123-B04

Lab Sample ID: 500-59840-21

Date Collected: 07/24/13 14:55

Matrix: Solid

Date Received: 07/25/13 12:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/08/13 10:00	08/11/13 10:23	1
Manganese	0.40		0.025	0.010	mg/L		08/08/13 10:00	08/11/13 10:23	1
Nickel	<0.025		0.025	0.010	mg/L		08/08/13 10:00	08/11/13 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59		0.50	0.010	mg/L		07/28/13 15:00	08/05/13 17:20	1
Beryllium	0.0067		0.0040	0.0040	mg/L		07/28/13 15:00	08/05/13 17:20	1
Boron	0.49		0.10	0.050	mg/L		07/28/13 15:00	08/05/13 17:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/05/13 17:20	1
Chromium	0.14		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 17:20	1
Cobalt	0.055		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 17:20	1
Iron	190		0.20	0.20	mg/L		08/06/13 13:00	08/07/13 18:14	1
Lead	0.11		0.0075	0.0050	mg/L		07/28/13 15:00	08/05/13 17:20	1
Manganese	1.1		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 17:20	1
Nickel	0.15		0.025	0.010	mg/L		07/28/13 15:00	08/05/13 17:20	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/05/13 17:20	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/05/13 17:20	1
Zinc	0.64		0.10	0.020	mg/L		07/28/13 15:00	08/05/13 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 10:00	08/14/13 16:33	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/28/13 15:00	08/09/13 15:37	1
Thallium	0.0034		0.0020	0.0020	mg/L		07/28/13 15:00	08/09/13 15:37	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00022		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 10:59	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.067		0.017	0.0081	mg/Kg	☼	07/29/13 13:00	07/30/13 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.99		0.200	0.200	SU			08/08/13 12:23	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59840-3

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

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



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: <u>US6/IL7 WILL/COOK CO</u> Project No.: <u>IDOT 2013-022</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>RM, TT</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-59840</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.																
ANALYSES																
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
17	846D-123-B01	7/24/13	2:35	S	X	X					X	X	X	X		0'-1'
18	846D-123-B02		2:40	S	X	X					X	X	X	X		0'-1'
19	846D-123-B02 DUP		2:45	S	X	X					X	X	X	X		0'-1'
20	846D-123-B03		2:50	S	X	X					X	X	X	X		0'-1'
21	846D-123-B04		2:55	S	X	X					X	X	X	X		0'-1'
	846D-123-B05			S	X	X					X	X	X	X		
Relinquished by: <u>Jim Jule</u>					Date/Time	Received by: <u>[Signature]</u>										
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>										
Relinquished by: _____					Date/Time	Received by: _____										

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-59862-1

Client Project/Site: IDOT - US 6/IL 7 - WO 022

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

8/19/2013 1:53:46 PM

Richard Wright, Project Manager II

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 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-1

Client Sample ID: 846D-123-B05

Lab Sample ID: 500-59862-1

Date Collected: 07/25/13 10:25

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0020	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	07/25/13 10:25	08/02/13 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	07/25/13 10:25	08/02/13 12:49	1
Dibromofluoromethane	103		75 - 120	07/25/13 10:25	08/02/13 12:49	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/25/13 10:25	08/02/13 12:49	1
Toluene-d8 (Surr)	96		75 - 122	07/25/13 10:25	08/02/13 12:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-1

Client Sample ID: 846D-123-B05

Lab Sample ID: 500-59862-1

Date Collected: 07/25/13 10:25

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Nitrobenzene	<0.035	*	0.035	0.011	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Bis(2-chloroethoxy)methane	<0.18	*	0.18	0.039	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
1,2,4-Trichlorobenzene	<0.18	*	0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
2,4-Dichlorophenol	<0.35	*	0.35	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Hexachlorocyclopentadiene	<0.72		0.72	0.16	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
2-Nitrophenol	<0.35	*	0.35	0.056	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Acenaphthylene	<0.035		0.035	0.0081	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Diethyl phthalate	<0.18	*	0.18	0.059	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
4-Chlorophenyl phenyl ether	<0.18	*	0.18	0.056	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Phenanthrene	0.025	J	0.035	0.015	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Fluoranthene	0.063		0.035	0.015	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Pyrene	0.060		0.035	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Benzo[a]anthracene	0.031	J	0.035	0.0074	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-1

Client Sample ID: 846D-123-B05

Lab Sample ID: 500-59862-1

Date Collected: 07/25/13 10:25

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.048		0.035	0.0080	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Benzo[b]fluoranthene	0.057		0.035	0.0069	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Benzo[k]fluoranthene	0.023 J		0.035	0.0085	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Benzo[a]pyrene	0.037		0.035	0.0065	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Indeno[1,2,3-cd]pyrene	0.028 J		0.035	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
Benzo[g,h,i]perylene	0.036		0.035	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	08/04/13 19:29	08/08/13 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		30 - 110	08/04/13 19:29	08/08/13 14:49	1
Phenol-d5	69		31 - 110	08/04/13 19:29	08/08/13 14:49	1
Nitrobenzene-d5	58		30 - 115	08/04/13 19:29	08/08/13 14:49	1
2-Fluorobiphenyl	82		30 - 119	08/04/13 19:29	08/08/13 14:49	1
2,4,6-Tribromophenol	88		35 - 137	08/04/13 19:29	08/08/13 14:49	1
Terphenyl-d14	96		36 - 134	08/04/13 19:29	08/08/13 14:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.41	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Arsenic	6.7		0.51	0.10	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Barium	70		0.51	0.055	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Beryllium	0.55		0.21	0.018	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Boron	1.9 J B		2.6	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Cadmium	0.28		0.10	0.013	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Calcium	6900 B		10	2.8	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Chromium	14		0.51	0.060	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Cobalt	11		0.26	0.018	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Copper	17 B		0.51	0.046	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Iron	15000 B		10	4.2	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Lead	26		0.26	0.077	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Magnesium	4400 B		5.1	1.1	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Manganese	390 B		0.51	0.028	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Nickel	21		0.51	0.050	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Potassium	1100 B		26	1.5	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Selenium	0.62		0.51	0.18	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Sodium	71		51	6.9	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Thallium	<0.51		0.51	0.22	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Vanadium	17		0.26	0.038	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1
Zinc	62 B		1.0	0.21	mg/Kg	☼	07/28/13 17:00	08/07/13 20:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.32		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 00:34	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 00:34	1
Manganese	0.56		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 00:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-1

Client Sample ID: 846D-123-B05

Lab Sample ID: 500-59862-1

Date Collected: 07/25/13 10:25

Matrix: Solid

Date Received: 07/26/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.010	mg/L		07/30/13 10:30	08/07/13 17:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 17:00	1
Boron	0.60		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 17:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 17:00	1
Chromium	0.036		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:00	1
Cobalt	0.0074	J	0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:00	1
Iron	32		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 17:00	1
Lead	0.026		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 17:00	1
Manganese	0.17		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:00	1
Nickel	0.029		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:00	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 17:00	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:00	1
Zinc	0.34		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 17:00	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 15:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 15:41	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000027	J	0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 11:24	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.018	0.0084	mg/Kg	☆	07/29/13 13:00	07/30/13 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.42		0.200	0.200	SU			08/08/13 16:47	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-1

Qualifiers

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
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
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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
11230 to 11320 159th Street

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.60073 Longitude: -87.89323
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 351 (U.S. 6/IL 7)Latitude: 41.60073 Longitude: -87.89323Uncontaminated 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 846D-126-B01 & -B02 WERE SAMPLED ADJACENT TO SITE No. 846D-126. SEE FIGURE 5 AND TABLE 3h OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59745-5

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

I, Steven Gobelman (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: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date: 9/20/14

Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-126
Residential and Vacant**

Sample ID	846D-126-B01	846D-126-B02						
Sample Depth (ft)	0-3	0-1						
Sample Date	7/24/2013	7/24/2013						
PID	0	0						
Sample pH	8.19	8.97						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								
			¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59745-5
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/20/2013 1:31:06 PM

Richard Wright, Project Manager II
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

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9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-5

Client Sample ID: 846D-126-B01

Lab Sample ID: 500-59745-36

Date Collected: 07/24/13 13:15

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	07/24/13 13:15	07/31/13 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	07/24/13 13:15	07/31/13 18:15	1
Dibromofluoromethane	107		75 - 120	07/24/13 13:15	07/31/13 18:15	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	07/24/13 13:15	07/31/13 18:15	1
Toluene-d8 (Surr)	96		75 - 122	07/24/13 13:15	07/31/13 18:15	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	☼	08/01/13 07:18	08/07/13 00:30	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-5

Client Sample ID: 846D-126-B01

Lab Sample ID: 500-59745-36

Date Collected: 07/24/13 13:15

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Fluoranthene	0.025	J	0.038	0.016	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Pyrene	0.021	J	0.038	0.014	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Benzo[a]anthracene	0.021	J	0.038	0.0080	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-5

Client Sample ID: 846D-126-B01

Lab Sample ID: 500-59745-36

Date Collected: 07/24/13 13:15

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.027	J	0.038	0.0086	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Benzo[b]fluoranthene	0.032	J	0.038	0.0074	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Benzo[k]fluoranthene	0.014	J	0.038	0.0091	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Benzo[a]pyrene	0.022	J	0.038	0.0070	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Indeno[1,2,3-cd]pyrene	0.018	J	0.038	0.013	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
Benzo[g,h,i]perylene	0.020	J	0.038	0.013	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/01/13 07:18	08/07/13 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	80		30 - 110	08/01/13 07:18	08/07/13 00:30	1
Phenol-d5	93		31 - 110	08/01/13 07:18	08/07/13 00:30	1
Nitrobenzene-d5	87		30 - 115	08/01/13 07:18	08/07/13 00:30	1
2-Fluorobiphenyl	92		30 - 119	08/01/13 07:18	08/07/13 00:30	1
2,4,6-Tribromophenol	99		35 - 137	08/01/13 07:18	08/07/13 00:30	1
Terphenyl-d14	94		36 - 134	08/01/13 07:18	08/07/13 00:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Arsenic	8.9		0.54	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Barium	70		0.54	0.058	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Beryllium	0.70		0.22	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Boron	4.4		2.7	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Cadmium	0.63		0.11	0.014	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Calcium	6200	B	11	2.9	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Chromium	17		0.54	0.063	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Cobalt	10		0.27	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Copper	22		0.54	0.048	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Iron	21000		11	4.5	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Lead	58	B	0.27	0.081	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Magnesium	5000	B	5.4	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Manganese	470	B	0.54	0.029	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Nickel	22	B	0.54	0.053	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Potassium	1500		27	1.6	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Selenium	0.78		0.54	0.19	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Sodium	550		54	7.3	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Thallium	0.41	J	0.54	0.23	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Vanadium	22	B	0.27	0.040	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1
Zinc	61	B	1.1	0.22	mg/Kg	☼	07/25/13 12:30	08/06/13 01:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/15/13 13:30	08/20/13 09:08	1
Chromium	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 09:08	1
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 09:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-5

Client Sample ID: 846D-126-B01

Lab Sample ID: 500-59745-36

Date Collected: 07/24/13 13:15

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 09:08	1
Manganese	0.17		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 09:08	1
Nickel	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 09:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.75		0.50	0.010	mg/L		07/29/13 12:00	08/06/13 03:29	1
Beryllium	0.0041		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 03:29	1
Boron	0.77		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 03:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 03:29	1
Chromium	0.10		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:29	1
Cobalt	0.021	J	0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 03:29	1
Iron	110		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 03:29	1
Lead	0.088		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 03:29	1
Manganese	0.46		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:29	1
Nickel	0.11		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:29	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 03:29	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 03:29	1
Zinc	0.58		0.10	0.020	mg/L		07/29/13 12:00	08/06/13 03:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:28	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 21:20	1
Thallium	0.0023		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:46	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 10:11	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.019	0.0089	mg/Kg	☼	07/26/13 14:00	07/29/13 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU			08/04/13 19:42	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-5

Client Sample ID: 846D-126-B02

Lab Sample ID: 500-59745-37

Date Collected: 07/24/13 13:10

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
1,1-Dichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
1,2-Dichloropropane	<0.0041		0.0041	0.00063	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	07/24/13 13:10	07/31/13 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	07/24/13 13:10	07/31/13 18:37	1
Dibromofluoromethane	106		75 - 120	07/24/13 13:10	07/31/13 18:37	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/24/13 13:10	07/31/13 18:37	1
Toluene-d8 (Surr)	93		75 - 122	07/24/13 13:10	07/31/13 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	0.059	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-5

Client Sample ID: 846D-126-B02

Lab Sample ID: 500-59745-37

Date Collected: 07/24/13 13:10

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Hexachlorobenzene	<0.075		0.075	0.0074	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Fluoranthene	0.049		0.037	0.015	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Pyrene	0.040		0.037	0.013	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Benzo[a]anthracene	0.034 J		0.037	0.0078	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-5

Client Sample ID: 846D-126-B02

Lab Sample ID: 500-59745-37

Date Collected: 07/24/13 13:10

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.045		0.037	0.0084	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Benzo[b]fluoranthene	0.071		0.037	0.0073	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Benzo[k]fluoranthene	0.028 J		0.037	0.0089	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Benzo[a]pyrene	0.047		0.037	0.0068	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Indeno[1,2,3-cd]pyrene	0.040		0.037	0.013	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Dibenz(a,h)anthracene	0.011 J		0.037	0.010	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Benzo[g,h,i]perylene	0.047		0.037	0.013	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/01/13 07:18	08/07/13 00:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		30 - 110				08/01/13 07:18	08/07/13 00:53	1
Phenol-d5	88		31 - 110				08/01/13 07:18	08/07/13 00:53	1
Nitrobenzene-d5	87		30 - 115				08/01/13 07:18	08/07/13 00:53	1
2-Fluorobiphenyl	87		30 - 119				08/01/13 07:18	08/07/13 00:53	1
2,4,6-Tribromophenol	94		35 - 137				08/01/13 07:18	08/07/13 00:53	1
Terphenyl-d14	90		36 - 134				08/01/13 07:18	08/07/13 00:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Arsenic	9.2		0.56	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Barium	53		0.56	0.060	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Beryllium	0.62		0.22	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Boron	6.4		2.8	0.12	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Cadmium	0.57		0.11	0.014	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Calcium	19000 B		11	3.0	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Chromium	15		0.56	0.065	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Cobalt	8.8		0.28	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Copper	23		0.56	0.049	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Iron	20000		11	4.6	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Lead	17 B		0.28	0.083	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Magnesium	14000 B		5.6	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Manganese	400 B		0.56	0.030	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Nickel	25 B		0.56	0.055	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Potassium	1700		28	1.7	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Sodium	1500		56	7.5	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Thallium	0.44 J		0.56	0.24	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Vanadium	20 B		0.28	0.041	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1
Zinc	46 B		1.1	0.23	mg/Kg	☼	07/25/13 12:30	08/06/13 01:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/15/13 13:30	08/20/13 09:31	1
Chromium	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 09:31	1
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 09:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-5

Client Sample ID: 846D-126-B02

Lab Sample ID: 500-59745-37

Date Collected: 07/24/13 13:10

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.013		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 09:31	1
Manganese	0.68		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 09:31	1
Nickel	0.019	J	0.025	0.010	mg/L		08/15/13 13:30	08/20/13 09:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.76		0.50	0.010	mg/L		07/29/13 12:00	08/06/13 03:33	1
Beryllium	0.0048		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 03:33	1
Boron	0.68		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 03:33	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 03:33	1
Chromium	0.14		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:33	1
Cobalt	0.056		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 03:33	1
Iron	160		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 03:33	1
Lead	0.62		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 03:33	1
Manganese	1.2		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:33	1
Nickel	0.19		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:33	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 03:33	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 03:33	1
Zinc	0.86		0.10	0.020	mg/L		07/29/13 12:00	08/06/13 03:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:31	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 21:24	1
Thallium	0.0034		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:47	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00024		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 10:13	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0083	mg/Kg	☼	07/26/13 14:00	07/29/13 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.97		0.200	0.200	SU			08/04/13 19:45	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-5

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

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



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: US6/IL7 WILL/COOK CO Project No.: IDOT 2013-022 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:	COC No.: _____ of _____ Lab Job No.: 500-59745 Sample Temp.:
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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	ANALYSES										Comments								
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization							
36	846D-126-B01	7/24/13	1:15P	S	X	X						X	X	X									
37	846D-126-B02	7/24/13	1:10P	S	X	X						X	X	X									

Relinquished by: Daniel J. MacKinson (AEI) Date/Time: 7/24/13 4:15PM
 Received by: *[Signature]* Date/Time: 7-24-13 06:00
 Relinquished by: *[Signature]* Date/Time: 7-24-13 16:48
 Received by: *[Signature]* Date/Time: 7-24-13 06:00
 Relinquished by: *[Signature]* 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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

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

11209 to 11349 W 159th St.

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.59927 Longitude: -87.89312
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 351 (U.S. 6/IL 7)

Latitude: 41.59927 Longitude: -87.89312

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 846D-127-B01 & -B03 THRU -B06 WERE SAMPLED ADJACENT TO SITE No. 846D-127. SEE FIGURE 5, FIGURE 12, AND TABLE 3I OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59862-2

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

I, Steven Gobelman (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: Illinois Department of Transportation, Bureau of Design and Environment

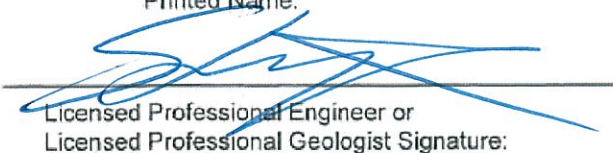
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

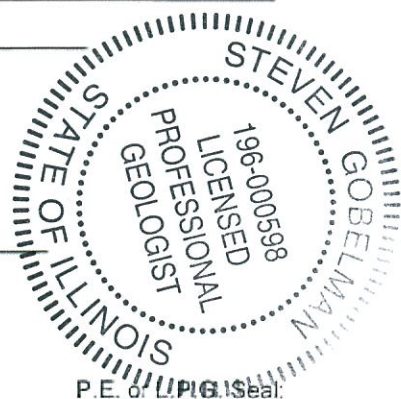
Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

3/20/14
 Date:



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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-127

Commercial

Sample ID	846D-127-B01	846D-127-B03	846D-127-B04	846D-127-B05-1									
Sample Depth (ft)	0-1	0-1	0-1	0-4									
Sample Date	7/25/2013	7/25/2013	7/25/2013	7/25/2013									
PID	0	0	0	0									
Sample pH	8.49	7.7	7.96	8.41									
Matrix	Soil	Soil	Soil	Soil									
No Contaminants of Concern Noted.													
Benzo(a)pyrene	ND	J 0.035	0.064	0.07	0.09	0.09	0.98	1.3	2.1	2.1	NA		

Sample ID	846D-127-B05-1 DUP	846D-127-B05-2	846D-127-B06										
Sample Depth (ft)	0-4	4-6	0-1										
Sample Date	7/25/2013	7/25/2013	7/25/2013										
PID	0	0	0										
Sample pH	7.88	8.25	7.79										
Matrix	Soil	Soil	Soil										
No Contaminants of Concern Noted.													
Benzo(a)pyrene	0.28	1.2	0.05	J 0.022	0.09	0.09	0.98	1.3	2.1	2.1	NA		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59862-2
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/19/2013 5:40:20 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

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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 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B01

Lab Sample ID: 500-59862-2

Date Collected: 07/25/13 10:30

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0063		0.0055	0.0024	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Benzene	<0.0055		0.0055	0.00076	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Bromodichloromethane	<0.0055		0.0055	0.00095	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Bromoform	<0.0055		0.0055	0.0013	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Bromomethane	<0.0055		0.0055	0.0017	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Carbon disulfide	<0.0055		0.0055	0.00083	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Carbon tetrachloride	<0.0055		0.0055	0.0010	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Chlorobenzene	<0.0055		0.0055	0.00056	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Chloroethane	<0.0055		0.0055	0.0015	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Chloroform	<0.0055		0.0055	0.00064	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Chloromethane	<0.0055		0.0055	0.0012	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.00078	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.00073	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Dibromochloromethane	<0.0055		0.0055	0.00096	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
1,1-Dichloroethane	<0.0055		0.0055	0.00088	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
1,2-Dichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
1,1,1-Dichloroethane	<0.0055		0.0055	0.00090	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
1,2-Dichloropropane	<0.0055		0.0055	0.00084	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.00073	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Ethylbenzene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
2-Hexanone	<0.0055		0.0055	0.0016	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Methylene Chloride	<0.0055		0.0055	0.0015	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0015	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Methyl tert-butyl ether	<0.0055		0.0055	0.00092	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Styrene	<0.0055		0.0055	0.00073	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
1,1,1,2-Tetrachloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Tetrachloroethene	<0.0055		0.0055	0.00085	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Toluene	<0.0055		0.0055	0.00078	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.00076	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.00099	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.00083	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.00076	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Trichloroethene	<0.0055		0.0055	0.00091	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Vinyl acetate	<0.0055		0.0055	0.00087	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Vinyl chloride	<0.0055		0.0055	0.0012	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1
Xylenes, Total	<0.011		0.011	0.00050	mg/Kg	☼	07/25/13 10:30	08/02/13 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	07/25/13 10:30	08/02/13 13:12	1
Dibromofluoromethane	104		75 - 120	07/25/13 10:30	08/02/13 13:12	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/25/13 10:30	08/02/13 13:12	1
Toluene-d8 (Surr)	97		75 - 122	07/25/13 10:30	08/02/13 13:12	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	☼	08/04/13 19:29	08/08/13 15:08	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B01

Lab Sample ID: 500-59862-2

Date Collected: 07/25/13 10:30

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Nitrobenzene	<0.036	*	0.036	0.011	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Bis(2-chloroethoxy)methane	<0.18	*	0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
1,2,4-Trichlorobenzene	<0.18	*	0.18	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
2,4-Dichlorophenol	<0.36	*	0.36	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
2-Nitrophenol	<0.36	*	0.36	0.057	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Diethyl phthalate	<0.18	*	0.18	0.060	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
4-Chlorophenyl phenyl ether	<0.18	*	0.18	0.057	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B01

Lab Sample ID: 500-59862-2

Date Collected: 07/25/13 10:30

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0081	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	08/04/13 19:29	08/08/13 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		30 - 110	08/04/13 19:29	08/08/13 15:08	1
Phenol-d5	63		31 - 110	08/04/13 19:29	08/08/13 15:08	1
Nitrobenzene-d5	63		30 - 115	08/04/13 19:29	08/08/13 15:08	1
2-Fluorobiphenyl	73		30 - 119	08/04/13 19:29	08/08/13 15:08	1
2,4,6-Tribromophenol	71		35 - 137	08/04/13 19:29	08/08/13 15:08	1
Terphenyl-d14	86		36 - 134	08/04/13 19:29	08/08/13 15:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.1	0.44	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Arsenic	9.1		0.54	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Barium	35		0.54	0.058	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Beryllium	0.48		0.22	0.019	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Boron	6.6	B	2.7	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Cadmium	0.24		0.11	0.014	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Calcium	58000	B	110	29	mg/Kg	☼	07/28/13 17:00	08/13/13 07:00	10
Chromium	13		0.54	0.063	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Cobalt	12		0.27	0.019	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Copper	21	B	0.54	0.048	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Iron	18000	B	11	4.5	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Lead	15		0.27	0.081	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Magnesium	23000	B	5.4	1.1	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Manganese	340	B	0.54	0.029	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Nickel	30		0.54	0.053	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Potassium	1500	B	27	1.6	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Selenium	0.30	J	0.54	0.19	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Sodium	110		54	7.3	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Thallium	0.43	J	0.54	0.23	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Vanadium	14		0.27	0.040	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1
Zinc	59	B	1.1	0.22	mg/Kg	☼	07/28/13 17:00	08/07/13 20:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 00:59	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 00:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B01

Lab Sample ID: 500-59862-2

Date Collected: 07/25/13 10:30

Matrix: Solid

Date Received: 07/26/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J	0.50	0.010	mg/L		07/30/13 10:30	08/07/13 17:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 17:04	1
Boron	0.77		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 17:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 17:04	1
Chromium	0.028		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:04	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:04	1
Iron	24		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 17:04	1
Lead	0.013		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 17:04	1
Manganese	0.084		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:04	1
Nickel	0.023	J	0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:04	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 17:04	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:04	1
Zinc	0.36		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 17:04	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 15:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 15:42	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 11:30	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0082	mg/Kg	☆	07/29/13 13:00	07/30/13 13:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.49		0.200	0.200	SU			08/08/13 16:51	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B03

Lab Sample ID: 500-59862-4

Date Collected: 07/25/13 11:10

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Ethylbenzene	<0.0044		0.0044	0.00088	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00088	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	07/25/13 11:10	08/02/13 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	07/25/13 11:10	08/02/13 13:58	1
Dibromofluoromethane	104		75 - 120	07/25/13 11:10	08/02/13 13:58	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	07/25/13 11:10	08/02/13 13:58	1
Toluene-d8 (Surr)	93		75 - 122	07/25/13 11:10	08/02/13 13:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B03

Lab Sample ID: 500-59862-4

Date Collected: 07/25/13 11:10

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Nitrobenzene	<0.036	*	0.036	0.011	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Bis(2-chloroethoxy)methane	<0.18	*	0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
1,2,4-Trichlorobenzene	<0.18	*	0.18	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Naphthalene	0.0077	J	0.036	0.0070	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
2,4-Dichlorophenol	<0.36	*	0.36	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
2-Nitrophenol	<0.36	*	0.36	0.057	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Hexachlorobenzene	<0.073		0.073	0.0072	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Diethyl phthalate	<0.18	*	0.18	0.061	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
4-Chlorophenyl phenyl ether	<0.18	*	0.18	0.057	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Pentachlorophenol	<0.73		0.73	0.19	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Phenanthrene	0.039		0.036	0.015	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Fluoranthene	0.069		0.036	0.015	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Pyrene	0.064		0.036	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Benzo[a]anthracene	0.031	J	0.036	0.0076	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B03

Lab Sample ID: 500-59862-4

Date Collected: 07/25/13 11:10

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.043		0.036	0.0082	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Benzo[b]fluoranthene	0.050		0.036	0.0071	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Benzo[k]fluoranthene	0.021 J		0.036	0.0087	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Benzo[a]pyrene	0.035 J		0.036	0.0066	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Indeno[1,2,3-cd]pyrene	0.023 J		0.036	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
Benzo[g,h,i]perylene	0.028 J		0.036	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/04/13 19:29	08/08/13 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		30 - 110	08/04/13 19:29	08/08/13 15:48	1
Phenol-d5	51		31 - 110	08/04/13 19:29	08/08/13 15:48	1
Nitrobenzene-d5	50		30 - 115	08/04/13 19:29	08/08/13 15:48	1
2-Fluorobiphenyl	60		30 - 119	08/04/13 19:29	08/08/13 15:48	1
2,4,6-Tribromophenol	64		35 - 137	08/04/13 19:29	08/08/13 15:48	1
Terphenyl-d14	70		36 - 134	08/04/13 19:29	08/08/13 15:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Arsenic	7.7		0.57	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Barium	82		0.57	0.061	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Beryllium	0.60		0.23	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Boron	2.2 J B		2.8	0.12	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Cadmium	0.24		0.11	0.014	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Calcium	4500 B		11	3.1	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Chromium	15		0.57	0.066	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Cobalt	11		0.28	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Copper	18 B		0.57	0.050	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Iron	18000 B		11	4.7	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Lead	24		0.28	0.084	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Magnesium	3800 B		5.7	1.2	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Manganese	470 B		0.57	0.031	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Nickel	24		0.57	0.056	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Potassium	1000 B		28	1.7	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Selenium	0.52 J		0.57	0.20	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Sodium	48 J		57	7.6	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Vanadium	19		0.28	0.042	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1
Zinc	65 B		1.1	0.23	mg/Kg	☼	07/28/13 17:00	08/07/13 20:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 01:11	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 01:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B03

Lab Sample ID: 500-59862-4

Date Collected: 07/25/13 11:10

Matrix: Solid

Date Received: 07/26/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.72		0.50	0.010	mg/L		07/30/13 10:30	08/07/13 17:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 17:12	1
Boron	1.1		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 17:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 17:12	1
Chromium	0.031		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:12	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:12	1
Iron	25		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 17:12	1
Lead	0.016		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 17:12	1
Manganese	0.11		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:12	1
Nickel	0.021	J	0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:12	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 17:12	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:12	1
Zinc	0.52		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 17:12	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 15:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 15:43	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 11:34	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.018	0.0084	mg/Kg	☆	07/29/13 13:00	07/30/13 13:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.70		0.200	0.200	SU			08/08/13 16:59	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B04

Lab Sample ID: 500-59862-5

Date Collected: 07/25/13 11:15

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0063		0.0063	0.0027	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Benzene	<0.0063		0.0063	0.00086	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Bromodichloromethane	<0.0063		0.0063	0.0011	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Bromoform	<0.0063		0.0063	0.0014	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Bromomethane	<0.0063		0.0063	0.0019	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
2-Butanone (MEK)	<0.0063		0.0063	0.0023	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Carbon disulfide	<0.0063		0.0063	0.00094	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Carbon tetrachloride	<0.0063		0.0063	0.0011	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Chlorobenzene	<0.0063		0.0063	0.00064	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Chloroethane	<0.0063		0.0063	0.0017	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Chloroform	<0.0063		0.0063	0.00072	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Chloromethane	<0.0063		0.0063	0.0013	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
cis-1,2-Dichloroethene	<0.0063		0.0063	0.00089	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
cis-1,3-Dichloropropene	<0.0063		0.0063	0.00082	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Dibromochloromethane	<0.0063		0.0063	0.0011	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
1,1-Dichloroethane	<0.0063		0.0063	0.00099	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
1,2-Dichloroethane	<0.0063		0.0063	0.00093	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
1,1-Dichloroethene	<0.0063		0.0063	0.0010	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
1,2-Dichloropropane	<0.0063		0.0063	0.00095	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
1,3-Dichloropropene, Total	<0.0063		0.0063	0.00082	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Ethylbenzene	<0.0063		0.0063	0.0013	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
2-Hexanone	<0.0063		0.0063	0.0018	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Methylene Chloride	<0.0063		0.0063	0.0017	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
4-Methyl-2-pentanone (MIBK)	<0.0063		0.0063	0.0016	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Methyl tert-butyl ether	<0.0063		0.0063	0.0010	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Styrene	<0.0063		0.0063	0.00082	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
1,1,2,2-Tetrachloroethane	<0.0063		0.0063	0.0013	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Tetrachloroethene	<0.0063		0.0063	0.00096	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Toluene	<0.0063		0.0063	0.00088	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
trans-1,2-Dichloroethene	<0.0063		0.0063	0.00086	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
trans-1,3-Dichloropropene	<0.0063		0.0063	0.0011	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
1,1,1-Trichloroethane	<0.0063		0.0063	0.00094	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
1,1,2-Trichloroethane	<0.0063		0.0063	0.00085	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Trichloroethene	<0.0063		0.0063	0.0010	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Vinyl acetate	<0.0063		0.0063	0.00099	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Vinyl chloride	<0.0063		0.0063	0.0013	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1
Xylenes, Total	<0.013		0.013	0.00057	mg/Kg	☼	07/25/13 11:15	08/02/13 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	07/25/13 11:15	08/02/13 14:21	1
Dibromofluoromethane	103		75 - 120	07/25/13 11:15	08/02/13 14:21	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/25/13 11:15	08/02/13 14:21	1
Toluene-d8 (Surr)	96		75 - 122	07/25/13 11:15	08/02/13 14:21	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	☼	08/04/13 19:29	08/08/13 16:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B04

Lab Sample ID: 500-59862-5

Date Collected: 07/25/13 11:15

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Nitrobenzene	<0.038	*	0.038	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Bis(2-chloroethoxy)methane	<0.19	*	0.19	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
1,2,4-Trichlorobenzene	<0.19	*	0.19	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
2,4-Dichlorophenol	<0.38	*	0.38	0.12	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
2-Nitrophenol	<0.38	*	0.38	0.061	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Diethyl phthalate	<0.19	*	0.19	0.065	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
4-Chlorophenyl phenyl ether	<0.19	*	0.19	0.061	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Phenanthrene	0.052		0.038	0.016	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Fluoranthene	0.13		0.038	0.016	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Pyrene	0.11		0.038	0.014	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Benzo[a]anthracene	0.062		0.038	0.0081	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B04

Lab Sample ID: 500-59862-5

Date Collected: 07/25/13 11:15

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.084		0.038	0.0087	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Benzo[b]fluoranthene	0.088		0.038	0.0075	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Benzo[k]fluoranthene	0.035	J	0.038	0.0092	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Benzo[a]pyrene	0.064		0.038	0.0070	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Indeno[1,2,3-cd]pyrene	0.044		0.038	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Dibenz(a,h)anthracene	0.015	J	0.038	0.011	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
Benzo[g,h,i]perylene	0.058		0.038	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/04/13 19:29	08/08/13 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		30 - 110	08/04/13 19:29	08/08/13 16:09	1
Phenol-d5	60		31 - 110	08/04/13 19:29	08/08/13 16:09	1
Nitrobenzene-d5	55		30 - 115	08/04/13 19:29	08/08/13 16:09	1
2-Fluorobiphenyl	68		30 - 119	08/04/13 19:29	08/08/13 16:09	1
2,4,6-Tribromophenol	71		35 - 137	08/04/13 19:29	08/08/13 16:09	1
Terphenyl-d14	85		36 - 134	08/04/13 19:29	08/08/13 16:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Arsenic	7.2		0.57	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Barium	71		0.57	0.061	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Beryllium	0.60		0.23	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Boron	3.2	B	2.9	0.12	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Cadmium	0.27		0.11	0.015	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Calcium	18000	B	11	3.1	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Chromium	15		0.57	0.066	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Cobalt	12		0.29	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Copper	19	B	0.57	0.051	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Iron	17000	B	11	4.7	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Lead	26		0.29	0.085	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Magnesium	9000	B	5.7	1.2	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Manganese	340	B	0.57	0.031	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Nickel	23		0.57	0.056	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Potassium	1300	B	29	1.7	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Selenium	0.70		0.57	0.20	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Sodium	78		57	7.7	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Thallium	0.26	J	0.57	0.24	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Vanadium	18		0.29	0.042	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1
Zinc	73	B	1.1	0.23	mg/Kg	☼	07/28/13 17:00	08/07/13 20:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 01:32	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 01:32	1
Manganese	0.20		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 01:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B04

Lab Sample ID: 500-59862-5

Date Collected: 07/25/13 11:15

Matrix: Solid

Date Received: 07/26/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.65		0.50	0.010	mg/L		07/30/13 10:30	08/07/13 17:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 17:16	1
Boron	0.92		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 17:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 17:16	1
Chromium	0.053		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:16	1
Cobalt	0.012	J	0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:16	1
Iron	55		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 17:16	1
Lead	0.032		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 17:16	1
Manganese	0.22		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:16	1
Nickel	0.053		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:16	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 17:16	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:16	1
Zinc	0.54		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 17:16	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 15:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 15:44	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000042	J	0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 11:36	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.018	0.0087	mg/Kg	☆	07/29/13 13:00	07/30/13 13:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.96		0.200	0.200	SU			08/08/13 17:03	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B05-1

Lab Sample ID: 500-59862-6

Date Collected: 07/25/13 11:25

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1
Xylenes, Total	<0.0089		0.0089	0.00041	mg/Kg	☼	07/25/13 11:25	08/02/13 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	07/25/13 11:25	08/02/13 14:43	1
Dibromofluoromethane	102		75 - 120	07/25/13 11:25	08/02/13 14:43	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	07/25/13 11:25	08/02/13 14:43	1
Toluene-d8 (Surr)	94		75 - 122	07/25/13 11:25	08/02/13 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B05-1

Lab Sample ID: 500-59862-6

Date Collected: 07/25/13 11:25

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Nitrobenzene	<0.038	*	0.038	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Bis(2-chloroethoxy)methane	<0.19	*	0.19	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
1,2,4-Trichlorobenzene	<0.19	*	0.19	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
2,4-Dichlorophenol	<0.38	*	0.38	0.12	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
2-Nitrophenol	<0.38	*	0.38	0.061	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Diethyl phthalate	<0.19	*	0.19	0.065	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
4-Chlorophenyl phenyl ether	<0.19	*	0.19	0.061	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Phenanthrene	0.10		0.038	0.016	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Anthracene	0.012	J	0.038	0.0091	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Fluoranthene	0.20		0.038	0.016	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Pyrene	0.16		0.038	0.014	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Benzo[a]anthracene	0.060		0.038	0.0081	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B05-1

Lab Sample ID: 500-59862-6

Date Collected: 07/25/13 11:25

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.090		0.038	0.0087	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Benzo[b]fluoranthene	0.11		0.038	0.0075	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Benzo[k]fluoranthene	0.038		0.038	0.0092	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Benzo[a]pyrene	0.070		0.038	0.0070	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Indeno[1,2,3-cd]pyrene	0.050		0.038	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Dibenz(a,h)anthracene	0.015	J	0.038	0.011	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
Benzo[g,h,i]perylene	0.061		0.038	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/04/13 19:29	08/08/13 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		30 - 110	08/04/13 19:29	08/08/13 16:30	1
Phenol-d5	61		31 - 110	08/04/13 19:29	08/08/13 16:30	1
Nitrobenzene-d5	62		30 - 115	08/04/13 19:29	08/08/13 16:30	1
2-Fluorobiphenyl	71		30 - 119	08/04/13 19:29	08/08/13 16:30	1
2,4,6-Tribromophenol	74		35 - 137	08/04/13 19:29	08/08/13 16:30	1
Terphenyl-d14	86		36 - 134	08/04/13 19:29	08/08/13 16:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Arsenic	8.4		0.56	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Barium	70		0.56	0.060	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Beryllium	0.76		0.22	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Boron	6.1	B	2.8	0.12	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Cadmium	0.29		0.11	0.014	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Calcium	62000	B	110	30	mg/Kg	☼	07/28/13 17:00	08/13/13 07:11	10
Chromium	12		0.56	0.065	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Cobalt	11		0.28	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Copper	19	B	0.56	0.049	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Iron	19000	B	11	4.6	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Lead	29		0.28	0.083	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Magnesium	25000	B	5.6	1.1	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Manganese	420	B	0.56	0.030	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Nickel	27		0.56	0.055	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Potassium	1300	B	28	1.7	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Selenium	0.51	J	0.56	0.20	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Sodium	350		56	7.5	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Thallium	0.38	J	0.56	0.23	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Vanadium	15		0.28	0.041	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1
Zinc	68	B	1.1	0.22	mg/Kg	☼	07/28/13 17:00	08/07/13 21:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 09:30	08/19/13 01:39	1
Chromium	<0.025		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 01:39	1
Iron	<0.20		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 01:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B05-1

Lab Sample ID: 500-59862-6

Date Collected: 07/25/13 11:25

Matrix: Solid

Date Received: 07/26/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 01:39	1
Manganese	0.18		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 01:39	1
Nickel	<0.025		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 01:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.90		0.50	0.010	mg/L		07/30/13 10:30	08/07/13 17:20	1
Beryllium	0.0047		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 17:20	1
Boron	0.88		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 17:20	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 17:20	1
Chromium	0.12		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:20	1
Cobalt	0.037		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:20	1
Iron	120		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 17:20	1
Lead	0.12		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 17:20	1
Manganese	0.70		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:20	1
Nickel	0.13		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:20	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 17:20	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:20	1
Zinc	0.76		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 09:30	08/19/13 12:43	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 15:45	1
Thallium	0.0029		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 15:45	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J	0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 11:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0086	mg/Kg	☼	07/29/13 13:00	07/30/13 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.41		0.200	0.200	SU			08/08/13 17:07	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B05-1 Dup

Lab Sample ID: 500-59862-7

Date Collected: 07/25/13 11:30

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 85.2

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	☼	07/25/13 11:30	08/02/13 15:07	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	07/25/13 11:30	08/02/13 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	07/25/13 11:30	08/02/13 15:07	1
Dibromofluoromethane	106		75 - 120	07/25/13 11:30	08/02/13 15:07	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	07/25/13 11:30	08/02/13 15:07	1
Toluene-d8 (Surr)	94		75 - 122	07/25/13 11:30	08/02/13 15:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B05-1 Dup

Lab Sample ID: 500-59862-7

Date Collected: 07/25/13 11:30

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Nitrobenzene	<0.037	*	0.037	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Bis(2-chloroethoxy)methane	<0.19	*	0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
1,2,4-Trichlorobenzene	<0.19	*	0.19	0.042	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
2,4-Dichlorophenol	<0.37	*	0.37	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
2-Nitrophenol	<0.37	*	0.37	0.058	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Acenaphthene	0.011	J	0.037	0.011	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Fluorene	0.014	J	0.037	0.0085	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Diethyl phthalate	<0.19	*	0.19	0.062	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
4-Chlorophenyl phenyl ether	<0.19	*	0.19	0.059	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Phenanthrene	0.33		0.037	0.016	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Anthracene	0.033	J	0.037	0.0088	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Fluoranthene	0.66		0.037	0.015	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Pyrene	0.69		0.037	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Benzo[a]anthracene	0.24		0.037	0.0078	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B05-1 Dup

Lab Sample ID: 500-59862-7

Date Collected: 07/25/13 11:30

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.36		0.037	0.0084	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Benzo[b]fluoranthene	0.43		0.037	0.0072	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Benzo[k]fluoranthene	0.17		0.037	0.0089	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Benzo[a]pyrene	0.28		0.037	0.0068	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Indeno[1,2,3-cd]pyrene	0.19		0.037	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Dibenz(a,h)anthracene	0.046		0.037	0.010	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Benzo[g,h,i]perylene	0.23		0.037	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/04/13 19:29	08/08/13 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		30 - 110				08/04/13 19:29	08/08/13 16:50	1
Phenol-d5	69		31 - 110				08/04/13 19:29	08/08/13 16:50	1
Nitrobenzene-d5	67		30 - 115				08/04/13 19:29	08/08/13 16:50	1
2-Fluorobiphenyl	76		30 - 119				08/04/13 19:29	08/08/13 16:50	1
2,4,6-Tribromophenol	82		35 - 137				08/04/13 19:29	08/08/13 16:50	1
Terphenyl-d14	102		36 - 134				08/04/13 19:29	08/08/13 16:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Arsenic	7.6		0.55	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Barium	79		0.55	0.058	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Beryllium	0.64		0.22	0.019	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Boron	2.4	J B	2.7	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Cadmium	0.19		0.11	0.014	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Calcium	2800	B	11	3.0	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Chromium	16		0.55	0.063	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Cobalt	15		0.27	0.019	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Copper	16	B	0.55	0.048	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Iron	18000	B	11	4.5	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Lead	26		0.27	0.081	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Magnesium	2700	B	5.5	1.1	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Manganese	410	B	0.55	0.030	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Nickel	23		0.55	0.054	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Potassium	1300	B	27	1.6	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Selenium	0.79		0.55	0.19	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Sodium	390		55	7.3	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Vanadium	21		0.27	0.040	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1
Zinc	61	B	1.1	0.22	mg/Kg	☼	07/28/13 17:00	08/07/13 21:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 09:30	08/19/13 01:45	1
Chromium	<0.025		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 01:45	1
Iron	<0.20		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 01:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B05-1 Dup

Lab Sample ID: 500-59862-7

Date Collected: 07/25/13 11:30

Matrix: Solid

Date Received: 07/26/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 01:45	1
Manganese	0.13		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 01:45	1
Nickel	<0.025		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 01:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.96		0.50	0.010	mg/L		07/30/13 10:30	08/07/13 17:24	1
Beryllium	0.0049		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 17:24	1
Boron	0.82		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 17:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 17:24	1
Chromium	0.14		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:24	1
Cobalt	0.031		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:24	1
Iron	120		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 17:24	1
Lead	0.075		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 17:24	1
Manganese	0.60		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:24	1
Nickel	0.13		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:24	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 17:24	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:24	1
Zinc	0.73		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 09:30	08/19/13 12:44	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 15:48	1
Thallium	0.0028		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 15:48	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00019	J	0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 11:43	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.018	0.0086	mg/Kg	☼	07/29/13 13:00	07/30/13 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU			08/08/13 17:11	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B05-2

Lab Sample ID: 500-59862-8

Date Collected: 07/25/13 11:35

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.024		0.0051	0.0022	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00083	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	07/25/13 11:35	08/05/13 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	07/25/13 11:35	08/05/13 13:05	1
Dibromofluoromethane	102		75 - 120	07/25/13 11:35	08/05/13 13:05	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/25/13 11:35	08/05/13 13:05	1
Toluene-d8 (Surr)	95		75 - 122	07/25/13 11:35	08/05/13 13:05	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	☼	08/04/13 19:29	08/08/13 17:11	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B05-2

Lab Sample ID: 500-59862-8

Date Collected: 07/25/13 11:35

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Nitrobenzene	<0.037	*	0.037	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Bis(2-chloroethoxy)methane	<0.19	*	0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
1,2,4-Trichlorobenzene	<0.19	*	0.19	0.042	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
2,4-Dichlorophenol	<0.37	*	0.37	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
2-Nitrophenol	<0.37	*	0.37	0.058	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Diethyl phthalate	<0.19	*	0.19	0.062	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
4-Chlorophenyl phenyl ether	<0.19	*	0.19	0.058	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Phenanthrene	0.072		0.037	0.016	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Anthracene	0.011	J	0.037	0.0087	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Fluoranthene	0.12		0.037	0.015	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Pyrene	0.11		0.037	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Benzo[a]anthracene	0.048		0.037	0.0078	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B05-2

Lab Sample ID: 500-59862-8

Date Collected: 07/25/13 11:35

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.063		0.037	0.0084	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Benzo[b]fluoranthene	0.076		0.037	0.0072	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Benzo[k]fluoranthene	0.026	J	0.037	0.0088	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Benzo[a]pyrene	0.050		0.037	0.0068	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Indeno[1,2,3-cd]pyrene	0.034	J	0.037	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Dibenz(a,h)anthracene	0.010	J	0.037	0.010	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Benzo[g,h,i]perylene	0.041		0.037	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/04/13 19:29	08/08/13 17:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		30 - 110				08/04/13 19:29	08/08/13 17:11	1
Phenol-d5	63		31 - 110				08/04/13 19:29	08/08/13 17:11	1
Nitrobenzene-d5	56		30 - 115				08/04/13 19:29	08/08/13 17:11	1
2-Fluorobiphenyl	65		30 - 119				08/04/13 19:29	08/08/13 17:11	1
2,4,6-Tribromophenol	67		35 - 137				08/04/13 19:29	08/08/13 17:11	1
Terphenyl-d14	80		36 - 134				08/04/13 19:29	08/08/13 17:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Arsenic	8.3		0.56	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Barium	48		0.56	0.060	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Beryllium	0.54		0.23	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Boron	5.1	B	2.8	0.12	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Cadmium	0.43		0.11	0.014	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Calcium	20000	B	11	3.1	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Chromium	14		0.56	0.065	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Cobalt	13		0.28	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Copper	21	B	0.56	0.050	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Iron	18000	B	11	4.6	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Lead	23		0.28	0.084	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Magnesium	14000	B	5.6	1.2	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Manganese	290	B	0.56	0.031	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Nickel	28		0.56	0.055	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Potassium	1300	B	28	1.7	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Sodium	380		56	7.6	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Thallium	0.26	J	0.56	0.24	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Vanadium	17		0.28	0.042	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1
Zinc	150	B	1.1	0.23	mg/Kg	☼	07/28/13 17:00	08/07/13 21:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.39		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 01:51	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 01:51	1
Manganese	4.5		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 01:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B05-2

Lab Sample ID: 500-59862-8

Date Collected: 07/25/13 11:35

Matrix: Solid

Date Received: 07/26/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.74		0.50	0.010	mg/L		07/30/13 10:30	08/07/13 17:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 17:37	1
Boron	1.1		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 17:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 17:37	1
Chromium	0.035		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:37	1
Cobalt	0.010	J	0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:37	1
Iron	31		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 17:37	1
Lead	0.023		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 17:37	1
Manganese	0.45		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:37	1
Nickel	0.035		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:37	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 17:37	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:37	1
Zinc	0.58		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 17:37	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 15:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 15:49	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 11:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0088	mg/Kg	☆	07/29/13 13:00	07/30/13 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.25		0.200	0.200	SU			08/08/13 17:15	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B06

Lab Sample ID: 500-59862-9

Date Collected: 07/25/13 15:25

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0022	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00086	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Vinyl acetate	<0.0052		0.0052	0.00082	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	07/25/13 15:25	08/02/13 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	07/25/13 15:25	08/02/13 19:13	1
Dibromofluoromethane	96		75 - 120	07/25/13 15:25	08/02/13 19:13	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/25/13 15:25	08/02/13 19:13	1
Toluene-d8 (Surr)	99		75 - 122	07/25/13 15:25	08/02/13 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B06

Lab Sample ID: 500-59862-9

Date Collected: 07/25/13 15:25

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Nitrobenzene	<0.037	*	0.037	0.011	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Bis(2-chloroethoxy)methane	<0.19	*	0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
1,2,4-Trichlorobenzene	<0.19	*	0.19	0.042	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
2,4-Dichlorophenol	<0.37	*	0.37	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
2-Nitrophenol	<0.37	*	0.37	0.058	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Hexachlorobenzene	<0.074		0.074	0.0073	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Diethyl phthalate	<0.19	*	0.19	0.062	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
4-Chlorophenyl phenyl ether	<0.19	*	0.19	0.058	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Fluoranthene	0.037		0.037	0.015	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Pyrene	0.034	J	0.037	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Benzo[a]anthracene	0.020	J	0.037	0.0077	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B06

Lab Sample ID: 500-59862-9

Date Collected: 07/25/13 15:25

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.030	J	0.037	0.0083	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Benzo[b]fluoranthene	0.036	J	0.037	0.0072	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Benzo[k]fluoranthene	0.011	J	0.037	0.0088	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Benzo[a]pyrene	0.022	J	0.037	0.0067	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.037	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
Benzo[g,h,i]perylene	0.021	J	0.037	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/04/13 19:29	08/08/13 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		30 - 110	08/04/13 19:29	08/08/13 17:32	1
Phenol-d5	59		31 - 110	08/04/13 19:29	08/08/13 17:32	1
Nitrobenzene-d5	54		30 - 115	08/04/13 19:29	08/08/13 17:32	1
2-Fluorobiphenyl	65		30 - 119	08/04/13 19:29	08/08/13 17:32	1
2,4,6-Tribromophenol	73		35 - 137	08/04/13 19:29	08/08/13 17:32	1
Terphenyl-d14	82		36 - 134	08/04/13 19:29	08/08/13 17:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Arsenic	6.3		0.54	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Barium	99		0.54	0.058	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Beryllium	0.57		0.22	0.019	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Boron	3.0	B	2.7	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Cadmium	0.36		0.11	0.014	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Calcium	4100	B	11	2.9	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Chromium	15		0.54	0.063	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Cobalt	8.7		0.27	0.019	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Copper	14	B	0.54	0.048	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Iron	16000	B	11	4.5	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Lead	25		0.27	0.081	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Magnesium	3000	B	5.4	1.1	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Manganese	400	B	0.54	0.029	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Nickel	17		0.54	0.053	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Potassium	1200	B	27	1.6	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Selenium	0.52	J	0.54	0.19	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Sodium	52	J	54	7.3	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Thallium	<0.54		0.54	0.23	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Vanadium	20		0.27	0.040	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1
Zinc	63	B	1.1	0.22	mg/Kg	☼	07/28/13 17:00	08/07/13 21:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.95		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 01:57	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 01:57	1
Manganese	0.043		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 01:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Client Sample ID: 846D-127-B06

Lab Sample ID: 500-59862-9

Date Collected: 07/25/13 15:25

Matrix: Solid

Date Received: 07/26/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.63		0.50	0.010	mg/L		07/30/13 10:30	08/07/13 17:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 17:41	1
Boron	0.86		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 17:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 17:41	1
Chromium	0.032		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:41	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:41	1
Iron	22		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 17:41	1
Lead	0.018		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 17:41	1
Manganese	0.18		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:41	1
Nickel	0.018	J	0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:41	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 17:41	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:41	1
Zinc	0.45		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 17:41	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 15:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 15:50	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 11:47	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.019	0.0088	mg/Kg	☆	07/29/13 13:00	07/30/13 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.79		0.200	0.200	SU			08/08/13 17:19	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-2

Qualifiers

GC/MS Semi VOA

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

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.

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamerica.com
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.		Project Name: <u>US6/IL7 WLL/COOK CO</u> Project No.: <u>IDOT 2013-022</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	
Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other		COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-59862</u> Sample Temp:	
Sampler: <u>AEI</u>		Sampler: <u>AEI</u>	

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments		
					VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP** TCLP Metals	pH	% Solids		Waste Characterization	
2	846D-127-B01	7/25/13	10:30	S	X							X	X	X			0'-1'
3	846D-127-B02		11:00														0'-1'
4	846D-127-B03		11:10														0'-1'
5	846D-127-B04		11:15														0'-1'
6	846D-127-B05-1		11:25														0'-4'
7	846D-127-B05-1 DUP		11:30														0'-4'
8	846D-127-B05-2		11:35														4-6'
9	846D-127-B06	7/25/13	3:25P	S	X							X	X	X			0-1'

Relinquished by:	Date/Time	Received by:	Date/Time
<i>Daniel J. Mackinson (AEI)</i>	7/25/13 4:15	<i>[Signature]</i>	7/25/13 16:15
Relinquished by:	Date/Time	Received by:	Date/Time
<i>[Signature]</i>	7/25/13 17:00	<i>[Signature]</i>	7/25/13 06:00
Relinquished by:	Date/Time	Received by:	Date/Time



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
15710 and 15760 Wolf Rd.

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.60305 Longitude: -87.89163
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 351 (U.S. 6/IL 7)
Latitude: 41.60305 Longitude: -87.89163

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 846D-128-B02 WAS SAMPLED ADJACENT TO SITE No. 846D-128. SEE FIGURE 13 AND TABLE 3j OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59745-6

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

I, Steven Gobelman (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: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

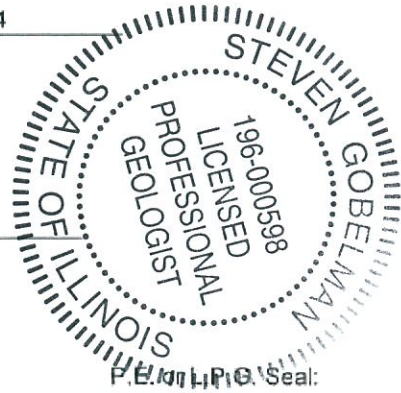
Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:

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

9/20/11
Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-128

Residential and Church

Sample ID	846D-128-B02								
Sample Depth (ft)	0-3								
Sample Date	7/24/2013								
PID	0								
Sample pH	8.6								
Matrix	Soil								
No Contaminants of Concern Noted.									
		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	⁷ Most Stringent TACO Tier 1 Residential Objective	

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: 500-59745-6
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/20/2013 1:31:44 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

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results through
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Have a Question?



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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 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-6

Client Sample ID: 846D-128-B02

Lab Sample ID: 500-59745-39

Date Collected: 07/24/13 10:45

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0023	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Benzene	<0.0052		0.0052	0.00072	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Bromodichloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Carbon tetrachloride	<0.0052		0.0052	0.00095	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00069	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Dibromochloromethane	<0.0052		0.0052	0.00091	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
1,1-Dichloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
1,2-Dichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
1,1-Dichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
1,2-Dichloropropane	<0.0052		0.0052	0.00080	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00069	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Ethylbenzene	<0.0052		0.0052	0.0011	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00087	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Styrene	<0.0052		0.0052	0.00069	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Tetrachloroethene	<0.0052		0.0052	0.00080	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00072	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00094	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Vinyl acetate	<0.0052		0.0052	0.00082	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	07/24/13 10:45	07/31/13 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/24/13 10:45	07/31/13 19:24	1
Dibromofluoromethane	97		75 - 120	07/24/13 10:45	07/31/13 19:24	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/24/13 10:45	07/31/13 19:24	1
Toluene-d8 (Surr)	98		75 - 122	07/24/13 10:45	07/31/13 19:24	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	☼	08/01/13 07:18	08/07/13 01:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-6

Client Sample ID: 846D-128-B02

Lab Sample ID: 500-59745-39

Date Collected: 07/24/13 10:45

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
4-Nitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Phenanthrene	0.027	J	0.038	0.016	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Fluoranthene	0.081		0.038	0.016	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Pyrene	0.064		0.038	0.014	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Benzo[a]anthracene	0.044		0.038	0.0080	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-6

Client Sample ID: 846D-128-B02

Lab Sample ID: 500-59745-39

Date Collected: 07/24/13 10:45

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.066		0.038	0.0086	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Benzo[b]fluoranthene	0.096		0.038	0.0074	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Benzo[k]fluoranthene	0.038		0.038	0.0091	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Benzo[a]pyrene	0.057		0.038	0.0069	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Indeno[1,2,3-cd]pyrene	0.045		0.038	0.013	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Dibenz(a,h)anthracene	0.014	J	0.038	0.011	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
Benzo[g,h,i]perylene	0.056		0.038	0.013	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/01/13 07:18	08/07/13 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		30 - 110	08/01/13 07:18	08/07/13 01:38	1
Phenol-d5	98		31 - 110	08/01/13 07:18	08/07/13 01:38	1
Nitrobenzene-d5	94		30 - 115	08/01/13 07:18	08/07/13 01:38	1
2-Fluorobiphenyl	101		30 - 119	08/01/13 07:18	08/07/13 01:38	1
2,4,6-Tribromophenol	108		35 - 137	08/01/13 07:18	08/07/13 01:38	1
Terphenyl-d14	97		36 - 134	08/01/13 07:18	08/07/13 01:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Arsenic	8.7		0.54	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Barium	58		0.54	0.058	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Beryllium	0.70		0.22	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Boron	5.5		2.7	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Cadmium	0.90		0.11	0.014	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Calcium	15000	B	11	2.9	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Chromium	19		0.54	0.062	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Cobalt	9.4		0.27	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Copper	23		0.54	0.048	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Iron	21000		11	4.4	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Lead	69	B	0.27	0.080	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Magnesium	11000	B	5.4	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Manganese	460	B	0.54	0.029	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Nickel	24	B	0.54	0.053	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Potassium	2000		27	1.6	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Selenium	0.59		0.54	0.19	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Sodium	230		54	7.2	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Thallium	0.28	J	0.54	0.23	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Vanadium	20	B	0.27	0.040	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1
Zinc	73	B	1.1	0.22	mg/Kg	☼	07/25/13 12:30	08/06/13 01:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/20/13 09:43	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/20/13 09:43	1
Manganese	0.042		0.025	0.010	mg/L		08/15/13 13:30	08/20/13 09:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-6

Client Sample ID: 846D-128-B02

Lab Sample ID: 500-59745-39

Date Collected: 07/24/13 10:45

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55		0.50	0.010	mg/L		07/29/13 12:00	08/06/13 03:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 03:59	1
Boron	0.68		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 03:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 03:59	1
Chromium	0.059		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:59	1
Cobalt	0.015	J	0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 03:59	1
Iron	61		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 03:59	1
Lead	0.072		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 03:59	1
Manganese	0.28		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:59	1
Nickel	0.060		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 03:59	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 03:59	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 03:59	1
Zinc	0.45		0.10	0.020	mg/L		07/29/13 12:00	08/06/13 03:59	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 21:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:52	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000072	J	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 13:10	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.018	0.0083	mg/Kg	☆	07/26/13 14:00	07/29/13 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.60		0.200	0.200	SU			08/04/13 19:50	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-6

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

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

15701 and 15717 Wolf Rd.

City: Orland Park State: IL Zip Code: 60462

County: Cook Township: Orland

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

Latitude: 41.60337 Longitude: -87.89126
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 351 (U.S. 6/IL 7)

Latitude: 41.60337 Longitude: -87.89126

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 846D-129-B01 WAS SAMPLED ADJACENT TO SITE No. 846D-129. SEE FIGURE 13 AND TABLE 3k OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59862-3

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

I, Steven Gobelman (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: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

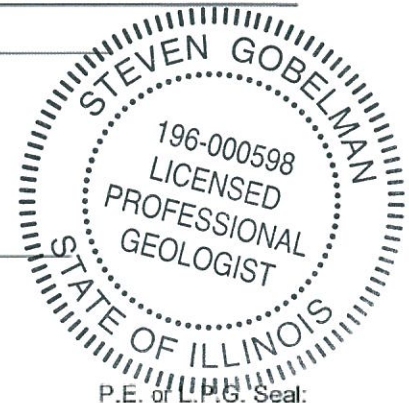
Steven Gobelman, P.E., L.P.G.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

9/20/14
Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-129

Commercial

Sample ID	846D-129-B01								
Sample Depth (ft)	0-3								
Sample Date	7/25/2013								
PID	0								
Sample pH	8.29								
Matrix	Soil								
No Contaminants of Concern Noted.									
		¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-59862-3

Client Project/Site: IDOT - US 6/IL 7 - WO 022

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

8/19/2013 2:11:14 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

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www.testamericainc.com

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

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

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

1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-3

Client Sample ID: 846D-129-B01

Lab Sample ID: 500-59862-10

Date Collected: 07/25/13 10:50

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0049		0.0046	0.0020	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
1,1,1-Dichloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	07/25/13 10:50	08/02/13 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	07/25/13 10:50	08/02/13 19:36	1
Dibromofluoromethane	92		75 - 120	07/25/13 10:50	08/02/13 19:36	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	07/25/13 10:50	08/02/13 19:36	1
Toluene-d8 (Surr)	103		75 - 122	07/25/13 10:50	08/02/13 19:36	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	☼	08/04/13 19:29	08/08/13 17:53	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-3

Client Sample ID: 846D-129-B01

Lab Sample ID: 500-59862-10

Date Collected: 07/25/13 10:50

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Nitrobenzene	<0.035	*	0.035	0.011	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Bis(2-chloroethoxy)methane	<0.18	*	0.18	0.039	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
1,2,4-Trichlorobenzene	<0.18	*	0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
2,4-Dichlorophenol	<0.35	*	0.35	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Hexachlorocyclopentadiene	<0.72		0.72	0.16	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
2-Nitrophenol	<0.35	*	0.35	0.056	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Acenaphthylene	<0.035		0.035	0.0081	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Diethyl phthalate	<0.18	*	0.18	0.059	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
4-Chlorophenyl phenyl ether	<0.18	*	0.18	0.056	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Benzo[a]anthracene	<0.035		0.035	0.0074	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-3

Client Sample ID: 846D-129-B01

Lab Sample ID: 500-59862-10

Date Collected: 07/25/13 10:50

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0080	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Benzo[b]fluoranthene	0.0086	J	0.035	0.0069	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Benzo[k]fluoranthene	<0.035		0.035	0.0085	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Benzo[a]pyrene	<0.035		0.035	0.0065	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	08/04/13 19:29	08/08/13 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		30 - 110	08/04/13 19:29	08/08/13 17:53	1
Phenol-d5	72		31 - 110	08/04/13 19:29	08/08/13 17:53	1
Nitrobenzene-d5	69		30 - 115	08/04/13 19:29	08/08/13 17:53	1
2-Fluorobiphenyl	77		30 - 119	08/04/13 19:29	08/08/13 17:53	1
2,4,6-Tribromophenol	75		35 - 137	08/04/13 19:29	08/08/13 17:53	1
Terphenyl-d14	100		36 - 134	08/04/13 19:29	08/08/13 17:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J	1.0	0.41	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Arsenic	5.3		0.51	0.10	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Barium	24		0.51	0.054	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Beryllium	0.31		0.20	0.018	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Boron	7.2	B	2.5	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Cadmium	0.23		0.10	0.013	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Calcium	94000	B	100	27	mg/Kg	☼	07/28/13 17:00	08/13/13 07:15	10
Chromium	10		0.51	0.059	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Cobalt	8.0		0.25	0.018	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Copper	12	B	0.51	0.045	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Iron	11000	B	10	4.2	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Lead	9.0		0.25	0.076	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Magnesium	41000	B	5.1	1.0	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Manganese	320	B	0.51	0.028	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Nickel	19		0.51	0.050	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Potassium	1200	B	25	1.5	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Selenium	0.23	J	0.51	0.18	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Silver	<0.25		0.25	0.018	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Sodium	120		51	6.8	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Thallium	0.56		0.51	0.21	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Vanadium	11		0.25	0.038	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1
Zinc	38	B	1.0	0.20	mg/Kg	☼	07/28/13 17:00	08/07/13 21:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 02:04	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 02:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-3

Client Sample ID: 846D-129-B01

Lab Sample ID: 500-59862-10

Date Collected: 07/25/13 10:50

Matrix: Solid

Date Received: 07/26/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.010	mg/L		07/30/13 10:30	08/07/13 17:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 17:45	1
Boron	0.81		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 17:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 17:45	1
Chromium	0.033		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:45	1
Cobalt	0.0081	J	0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:45	1
Iron	32		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 17:45	1
Lead	0.016		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 17:45	1
Manganese	0.14		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:45	1
Nickel	0.033		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:45	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 17:45	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:45	1
Zinc	0.44		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 17:45	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 15:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 15:51	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000025	J	0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 11:49	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.017	0.0081	mg/Kg	☆	07/29/13 13:00	07/30/13 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.29		0.200	0.200	SU			08/08/13 17:22	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-3

Qualifiers

GC/MS Semi VOA

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

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.

Glossary

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



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 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: US6 / IL7 WILL/COOK CO Project No.: IDOT 2013-099 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: AEI	COC No.: _____ of _____ Lab Job No.: 500-59862 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.		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other														
ANALYSES																
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
10	846D-129-B01	7/25/13	10:50AM	S	XX	XX					XX	XX	XX	XX		0-3'
					Date/Time						Date/Time					
					7/25/13						4:15P					
					Date/Time						Date/Time					
					7/25/13						7/26/13					
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Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

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

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

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

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

I. Source Location Information

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

Project Name: FAP 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

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

15832 to 15880 Wolf Road

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.60083 Longitude: -87.89175
(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: 0312315072 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 351 (U.S. 6/IL 7)Latitude: 41.60083 Longitude: -87.89175Uncontaminated 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 846D-131-B01 THRU -B04 WERE SAMPLED ADJACENT TO SITE No. 846D-131. SEE FIGURES 5 & 13, AND TABLE 3I OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59745-7

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

I, Steven Gobelman (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.

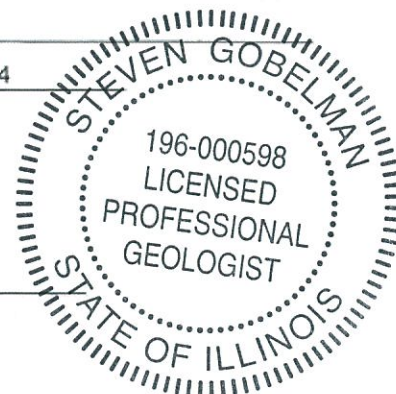
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date:

9/20/14

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-131
County West Plaza**

Sample ID	846D-131-B01	846D-131-B02	846D-131-B03	846D-131-B03 DUP	846D-131-B04								
Sample Depth (ft)	0-3	0-3	0-3	0-3	0-1								
Sample Date	7/25/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013								
PID	0	0	0	0	0								
Sample pH	8.92	8.6	7.9	7.99	7.82								
Matrix	Soil	Soil	Soil	Soil	Soil								
Semivolatile Organic Compounds (mg/kg)													
Benzo(a)pyrene	ND	0.18	1.2	0.22	1.2	0.058	J 0.0084	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: 500-59745-7
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/20/2013 8:46:26 AM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
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 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B01

Lab Sample ID: 500-59745-40

Date Collected: 07/25/13 00:00

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0020	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	07/25/13 00:00	07/31/13 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/25/13 00:00	07/31/13 19:47	1
Dibromofluoromethane	96		75 - 120	07/25/13 00:00	07/31/13 19:47	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	07/25/13 00:00	07/31/13 19:47	1
Toluene-d8 (Surr)	99		75 - 122	07/25/13 00:00	07/31/13 19:47	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	☼	08/01/13 07:18	08/07/13 02:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B01

Lab Sample ID: 500-59745-40

Date Collected: 07/25/13 00:00

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
4-Nitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B01

Lab Sample ID: 500-59745-40

Date Collected: 07/25/13 00:00

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/01/13 07:18	08/07/13 02:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		30 - 110				08/01/13 07:18	08/07/13 02:01	1
Phenol-d5	85		31 - 110				08/01/13 07:18	08/07/13 02:01	1
Nitrobenzene-d5	82		30 - 115				08/01/13 07:18	08/07/13 02:01	1
2-Fluorobiphenyl	81		30 - 119				08/01/13 07:18	08/07/13 02:01	1
2,4,6-Tribromophenol	99		35 - 137				08/01/13 07:18	08/07/13 02:01	1
Terphenyl-d14	90		36 - 134				08/01/13 07:18	08/07/13 02:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Arsenic	11		0.55	0.11	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Barium	32		0.55	0.059	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Beryllium	0.49		0.22	0.019	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Boron	6.7		2.8	0.12	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Cadmium	0.87		0.11	0.014	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Calcium	32000	B	11	3.0	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Chromium	12	B	0.55	0.064	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Cobalt	9.8	B	0.28	0.020	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Copper	27	B	0.55	0.049	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Iron	19000		11	4.5	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Lead	14		0.28	0.082	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Magnesium	21000	B	5.5	1.1	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Manganese	420	B	0.55	0.030	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Nickel	23	B	0.55	0.054	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Potassium	1700	B	28	1.7	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Sodium	460		55	7.4	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Thallium	0.41	J	0.55	0.23	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Vanadium	15	B	0.28	0.041	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1
Zinc	62		1.1	0.22	mg/Kg	☼	07/26/13 14:00	08/03/13 00:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/16/13 17:50	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/16/13 17:50	1
Manganese	0.73		0.025	0.010	mg/L		08/15/13 13:30	08/16/13 17:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B01

Lab Sample ID: 500-59745-40

Date Collected: 07/25/13 00:00

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59		0.50	0.010	mg/L		07/29/13 12:00	08/06/13 04:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 04:15	1
Boron	0.75		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 04:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 04:15	1
Chromium	0.052		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 04:15	1
Cobalt	0.021	J	0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 04:15	1
Iron	68		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 04:15	1
Lead	0.029		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 04:15	1
Manganese	0.30		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 04:15	1
Nickel	0.076		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 04:15	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 04:15	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 04:15	1
Zinc	0.51		0.10	0.020	mg/L		07/29/13 12:00	08/06/13 04:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:33	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 22:06	1
Thallium	0.0030		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:56	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 13:12	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0085	mg/Kg	☼	07/26/13 14:00	07/29/13 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.92		0.200	0.200	SU			08/04/13 19:52	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B02

Lab Sample ID: 500-59745-41

Date Collected: 07/24/13 11:40

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.0046	0.0020	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
1,1,1-Dichloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	07/24/13 11:40	07/31/13 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	07/24/13 11:40	07/31/13 20:10	1
Dibromofluoromethane	99		75 - 120	07/24/13 11:40	07/31/13 20:10	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	07/24/13 11:40	07/31/13 20:10	1
Toluene-d8 (Surr)	99		75 - 122	07/24/13 11:40	07/31/13 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.93		0.93	0.29	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Bis(2-chloroethyl)ether	<0.93		0.93	0.28	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
1,3-Dichlorobenzene	<0.93		0.93	0.20	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
1,4-Dichlorobenzene	<0.93		0.93	0.20	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B02

Lab Sample ID: 500-59745-41

Date Collected: 07/24/13 11:40

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.93		0.93	0.20	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
2-Methylphenol	<0.93		0.93	0.25	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
2,2'-oxybis[1-chloropropane]	<0.93		0.93	0.21	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
N-Nitrosodi-n-propylamine	<0.93		0.93	0.24	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Hexachloroethane	<0.93		0.93	0.20	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
2-Chlorophenol	<0.93		0.93	0.27	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Nitrobenzene	<0.18		0.18	0.058	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Bis(2-chloroethoxy)methane	<0.93		0.93	0.21	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
1,2,4-Trichlorobenzene	<0.93		0.93	0.21	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Isophorone	<0.93		0.93	0.21	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
2,4-Dimethylphenol	<1.8		1.8	0.58	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Hexachlorobutadiene	<0.93		0.93	0.24	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Naphthalene	<0.18		0.18	0.036	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
2,4-Dichlorophenol	<1.8		1.8	0.57	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
4-Chloroaniline	<3.7		3.7	0.57	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
2,4,6-Trichlorophenol	<1.8		1.8	0.23	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
2,4,5-Trichlorophenol	<1.8		1.8	0.53	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Hexachlorocyclopentadiene	<3.7		3.7	0.86	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
2-Methylnaphthalene	<0.93		0.93	0.24	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
2-Nitroaniline	<0.93		0.93	0.33	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
2-Chloronaphthalene	<0.93		0.93	0.21	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
4-Chloro-3-methylphenol	<1.8		1.8	0.89	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
2,6-Dinitrotoluene	<0.93		0.93	0.22	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
2-Nitrophenol	<1.8		1.8	0.29	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
3-Nitroaniline	<1.8		1.8	0.36	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Dimethyl phthalate	<0.93		0.93	0.23	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
2,4-Dinitrophenol	<3.7		3.7	0.95	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Acenaphthylene	<0.18		0.18	0.043	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
2,4-Dinitrotoluene	<0.93		0.93	0.28	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Acenaphthene	<0.18		0.18	0.056	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Dibenzofuran	<0.93		0.93	0.22	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
4-Nitrophenol	<3.7		3.7	1.0	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Fluorene	<0.18		0.18	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
4-Nitroaniline	<1.8		1.8	0.38	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
4-Bromophenyl phenyl ether	<0.93		0.93	0.21	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Hexachlorobenzene	<0.37		0.37	0.037	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Diethyl phthalate	<0.93		0.93	0.31	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
4-Chlorophenyl phenyl ether	<0.93		0.93	0.29	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Pentachlorophenol	<3.7		3.7	0.95	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
N-Nitrosodiphenylamine	<0.93		0.93	0.25	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
4,6-Dinitro-2-methylphenol	<1.8		1.8	0.45	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Phenanthrene	0.080	J	0.18	0.078	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Anthracene	<0.18		0.18	0.044	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Carbazole	<0.93		0.93	0.26	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Di-n-butyl phthalate	<0.93		0.93	0.23	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Fluoranthene	0.26		0.18	0.076	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Pyrene	0.19		0.18	0.067	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Butyl benzyl phthalate	<0.93		0.93	0.23	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Benzo[a]anthracene	0.13	J	0.18	0.039	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B02

Lab Sample ID: 500-59745-41

Date Collected: 07/24/13 11:40

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.16	J	0.18	0.042	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
3,3'-Dichlorobenzidine	<0.93		0.93	0.15	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Bis(2-ethylhexyl) phthalate	<0.93		0.93	0.25	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Di-n-octyl phthalate	<0.93		0.93	0.38	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Benzo[b]fluoranthene	<0.18		0.18	0.036	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Benzo[k]fluoranthene	<0.18		0.18	0.044	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Benzo[a]pyrene	0.18		0.18	0.034	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Indeno[1,2,3-cd]pyrene	0.14	J	0.18	0.063	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Dibenz(a,h)anthracene	<0.18		0.18	0.052	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
Benzo[g,h,i]perylene	0.13	J	0.18	0.063	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5
3 & 4 Methylphenol	<0.93		0.93	0.35	mg/Kg	☼	08/01/13 07:18	08/07/13 02:23	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	92		30 - 110	08/01/13 07:18	08/07/13 02:23	5
Phenol-d5	104		31 - 110	08/01/13 07:18	08/07/13 02:23	5
Nitrobenzene-d5	104		30 - 115	08/01/13 07:18	08/07/13 02:23	5
2-Fluorobiphenyl	98		30 - 119	08/01/13 07:18	08/07/13 02:23	5
2,4,6-Tribromophenol	113		35 - 137	08/01/13 07:18	08/07/13 02:23	5
Terphenyl-d14	116		36 - 134	08/01/13 07:18	08/07/13 02:23	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Arsenic	5.2		0.58	0.12	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Barium	44		0.58	0.062	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Beryllium	0.48		0.23	0.021	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Boron	8.6		2.9	0.12	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Cadmium	0.74		0.12	0.015	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Calcium	110000	B	58	16	mg/Kg	☼	07/25/13 12:30	08/06/13 14:03	5
Chromium	11		0.58	0.068	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Cobalt	6.0		0.29	0.021	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Copper	14		0.58	0.052	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Iron	13000		12	4.8	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Lead	13	B	0.29	0.087	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Magnesium	52000	B	5.8	1.2	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Manganese	350	B	0.58	0.032	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Nickel	14	B	0.58	0.057	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Potassium	1800		29	1.8	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Sodium	2200		58	7.8	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Thallium	<0.58		0.58	0.25	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Vanadium	17	B	0.29	0.043	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1
Zinc	34	B	1.2	0.24	mg/Kg	☼	07/25/13 12:30	08/06/13 02:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/15/13 13:30	08/16/13 18:11	1
Chromium	<0.025		0.025	0.010	mg/L		08/15/13 13:30	08/16/13 18:11	1
Iron	0.24		0.20	0.20	mg/L		08/15/13 13:30	08/16/13 18:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B02

Lab Sample ID: 500-59745-41

Date Collected: 07/24/13 11:40

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.014		0.0075	0.0050	mg/L		08/15/13 13:30	08/16/13 18:11	1
Manganese	6.9		0.025	0.010	mg/L		08/15/13 13:30	08/16/13 18:11	1
Nickel	0.017	J	0.025	0.010	mg/L		08/15/13 13:30	08/16/13 18:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.91		0.50	0.010	mg/L		07/29/13 12:00	08/06/13 04:19	1
Beryllium	0.0047		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 04:19	1
Boron	0.73		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 04:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 04:19	1
Chromium	0.12		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 04:19	1
Cobalt	0.063		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 04:19	1
Iron	150		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 04:19	1
Lead	0.11		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 04:19	1
Manganese	1.3		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 04:19	1
Nickel	0.17		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 04:19	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 04:19	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 04:19	1
Zinc	0.70		0.10	0.020	mg/L		07/29/13 12:00	08/06/13 04:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/15/13 13:30	08/19/13 12:37	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 22:10	1
Thallium	0.0038		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:57	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020		0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 13:14	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.019	0.0087	mg/Kg	☼	07/26/13 14:00	07/29/13 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.60		0.200	0.200	SU			08/04/13 19:55	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B03

Lab Sample ID: 500-59745-42

Date Collected: 07/24/13 11:30

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0022	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Vinyl acetate	<0.0050		0.0050	0.00079	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	07/24/13 11:30	07/31/13 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/24/13 11:30	07/31/13 20:32	1
Dibromofluoromethane	96		75 - 120	07/24/13 11:30	07/31/13 20:32	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	07/24/13 11:30	07/31/13 20:32	1
Toluene-d8 (Surr)	100		75 - 122	07/24/13 11:30	07/31/13 20:32	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	☼	08/01/13 07:18	08/07/13 02:46	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B03

Lab Sample ID: 500-59745-42

Date Collected: 07/24/13 11:30

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
2-Methylnaphthalene	<0.20		0.20	0.050	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Acenaphthene	0.014	J	0.039	0.012	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Fluorene	0.013	J	0.039	0.0088	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Hexachlorobenzene	<0.078		0.078	0.0077	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Phenanthrene	0.37		0.039	0.016	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Anthracene	0.025	J	0.039	0.0091	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Fluoranthene	0.53		0.039	0.016	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Pyrene	0.39		0.039	0.014	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Benzo[a]anthracene	0.20		0.039	0.0081	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B03

Lab Sample ID: 500-59745-42

Date Collected: 07/24/13 11:30

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.22		0.039	0.0088	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Benzo[b]fluoranthene	0.32		0.039	0.0076	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Benzo[k]fluoranthene	0.11		0.039	0.0093	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Benzo[a]pyrene	0.22		0.039	0.0071	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Indeno[1,2,3-cd]pyrene	0.15		0.039	0.013	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Dibenz(a,h)anthracene	0.038	J	0.039	0.011	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
Benzo[g,h,i]perylene	0.15		0.039	0.013	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/01/13 07:18	08/07/13 02:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	91		30 - 110	08/01/13 07:18	08/07/13 02:46	1
Phenol-d5	107		31 - 110	08/01/13 07:18	08/07/13 02:46	1
Nitrobenzene-d5	104		30 - 115	08/01/13 07:18	08/07/13 02:46	1
2-Fluorobiphenyl	108		30 - 119	08/01/13 07:18	08/07/13 02:46	1
2,4,6-Tribromophenol	116		35 - 137	08/01/13 07:18	08/07/13 02:46	1
Terphenyl-d14	107		36 - 134	08/01/13 07:18	08/07/13 02:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Arsenic	9.0		0.58	0.12	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Barium	79		0.58	0.063	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Beryllium	0.60		0.23	0.021	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Boron	3.9		2.9	0.12	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Cadmium	0.31	B	0.12	0.015	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Calcium	37000	B	12	3.2	mg/Kg	☼	07/25/13 12:30	08/01/13 05:02	1
Chromium	13		0.58	0.068	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Cobalt	11		0.29	0.021	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Copper	18	B	0.58	0.052	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Iron	18000		12	4.8	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Lead	33		0.29	0.087	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Magnesium	23000		5.8	1.2	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Manganese	540		0.58	0.032	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Nickel	22		0.58	0.057	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Potassium	1100		29	1.8	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Selenium	0.65		0.58	0.21	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Sodium	97		58	7.8	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Thallium	0.30	J	0.58	0.25	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Vanadium	18		0.29	0.043	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1
Zinc	66	B	1.2	0.24	mg/Kg	☼	07/25/13 12:30	07/30/13 01:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/16/13 18:16	1
Lead	0.0062	J	0.0075	0.0050	mg/L		08/15/13 13:30	08/16/13 18:16	1
Manganese	1.9		0.025	0.010	mg/L		08/15/13 13:30	08/16/13 18:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B03

Lab Sample ID: 500-59745-42

Date Collected: 07/24/13 11:30

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.51		0.50	0.010	mg/L		07/29/13 12:00	08/06/13 04:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 04:23	1
Boron	0.71		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 04:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 04:23	1
Chromium	0.029		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 04:23	1
Cobalt	0.0083	J	0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 04:23	1
Iron	29		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 04:23	1
Lead	0.035		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 04:23	1
Manganese	0.16		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 04:23	1
Nickel	0.024	J	0.025	0.010	mg/L		07/29/13 12:00	08/06/13 04:23	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 04:23	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 04:23	1
Zinc	0.36		0.10	0.020	mg/L		07/29/13 12:00	08/06/13 04:23	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 22:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:58	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000029	J	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 13:16	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0089	mg/Kg	☆	07/26/13 14:00	07/29/13 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.90		0.200	0.200	SU			08/04/13 19:57	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B03 Dup

Lab Sample ID: 500-59745-43

Date Collected: 07/24/13 11:35

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.0

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	☼	07/24/13 11:35	07/31/13 20:55	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
1,1,1-Dichloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	07/24/13 11:35	07/31/13 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	07/24/13 11:35	07/31/13 20:55	1
Dibromofluoromethane	93		75 - 120	07/24/13 11:35	07/31/13 20:55	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	07/24/13 11:35	07/31/13 20:55	1
Toluene-d8 (Surr)	99		75 - 122	07/24/13 11:35	07/31/13 20:55	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	☼	08/01/13 17:46	08/05/13 20:46	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B03 Dup

Lab Sample ID: 500-59745-43

Date Collected: 07/24/13 11:35

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Hexachlorocyclopentadiene	<0.72		0.72	0.17	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
2,4-Dinitrophenol	<0.72 *		0.72	0.18	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Acenaphthylene	<0.036		0.036	0.0082	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Hexachlorobenzene	<0.072		0.072	0.0071	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Phenanthrene	0.062		0.036	0.015	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Anthracene	<0.036		0.036	0.0084	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Fluoranthene	0.12		0.036	0.015	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Pyrene	0.086		0.036	0.013	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Benzo[a]anthracene	0.058		0.036	0.0075	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B03 Dup

Lab Sample ID: 500-59745-43

Date Collected: 07/24/13 11:35

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.072		0.036	0.0081	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Benzo[b]fluoranthene	0.093		0.036	0.0070	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Benzo[k]fluoranthene	0.033	J	0.036	0.0086	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Benzo[a]pyrene	0.058		0.036	0.0065	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Indeno[1,2,3-cd]pyrene	0.041		0.036	0.012	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Dibenz(a,h)anthracene	0.012	J	0.036	0.010	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Benzo[g,h,i]perylene	0.044		0.036	0.012	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	08/01/13 17:46	08/05/13 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		30 - 110				08/01/13 17:46	08/05/13 20:46	1
Phenol-d5	68		31 - 110				08/01/13 17:46	08/05/13 20:46	1
Nitrobenzene-d5	64		30 - 115				08/01/13 17:46	08/05/13 20:46	1
2-Fluorobiphenyl	73		30 - 119				08/01/13 17:46	08/05/13 20:46	1
2,4,6-Tribromophenol	89		35 - 137				08/01/13 17:46	08/05/13 20:46	1
Terphenyl-d14	69		36 - 134				08/01/13 17:46	08/05/13 20:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.42	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Arsenic	8.9		0.53	0.11	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Barium	55		0.53	0.057	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Beryllium	0.54		0.21	0.019	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Boron	5.2		2.6	0.11	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Cadmium	0.32	B	0.11	0.013	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Calcium	36000	B	11	2.9	mg/Kg	☼	07/25/13 12:30	08/01/13 05:08	1
Chromium	13		0.53	0.061	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Cobalt	11		0.26	0.019	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Copper	710	B	0.53	0.047	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Iron	18000		11	4.3	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Lead	23		0.26	0.079	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Magnesium	21000		5.3	1.1	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Manganese	300		0.53	0.029	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Nickel	28		0.53	0.052	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Potassium	1100		26	1.6	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Selenium	0.29	J	0.53	0.19	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Silver	0.029	J B	0.26	0.019	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Sodium	93		53	7.1	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Thallium	0.30	J	0.53	0.22	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Vanadium	17		0.26	0.039	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1
Zinc	77	B	1.1	0.21	mg/Kg	☼	07/25/13 12:30	07/30/13 01:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/16/13 18:21	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/15/13 13:30	08/16/13 18:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B03 Dup

Lab Sample ID: 500-59745-43

Date Collected: 07/24/13 11:35

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.50		0.50	0.010	mg/L		07/29/13 12:00	08/06/13 04:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 04:35	1
Boron	0.75		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 04:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 04:35	1
Chromium	0.015	J	0.025	0.010	mg/L		07/29/13 12:00	08/06/13 04:35	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 04:35	1
Iron	14		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 04:35	1
Lead	0.0089		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 04:35	1
Manganese	0.11		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 04:35	1
Nickel	0.014	J	0.025	0.010	mg/L		07/29/13 12:00	08/06/13 04:35	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 04:35	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 04:35	1
Zinc	0.34		0.10	0.020	mg/L		07/29/13 12:00	08/06/13 04:35	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 22:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 14:59	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000020	J	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 13:18	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0087	mg/Kg	☆	07/26/13 14:00	07/29/13 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.99		0.200	0.200	SU			08/04/13 20:00	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B04

Lab Sample ID: 500-59745-44

Date Collected: 07/24/13 11:20

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.042		0.0052	0.0022	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
2-Butanone (MEK)	0.0085		0.0052	0.0019	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Chlorobenzene	<0.0052		0.0052	0.00052	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Chloroform	<0.0052		0.0052	0.00059	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
1,1,1-Dichloroethane	<0.0052		0.0052	0.00084	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
1,2-Dichloropropane	<0.0052		0.0052	0.00078	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00085	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Toluene	<0.0052		0.0052	0.00072	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Vinyl acetate	<0.0052		0.0052	0.00081	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	07/24/13 11:20	08/03/13 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	07/24/13 11:20	08/03/13 00:22	1
Dibromofluoromethane	104		75 - 120	07/24/13 11:20	08/03/13 00:22	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/24/13 11:20	08/03/13 00:22	1
Toluene-d8 (Surr)	94		75 - 122	07/24/13 11:20	08/03/13 00:22	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	☼	08/01/13 17:46	08/05/13 21:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B04

Lab Sample ID: 500-59745-44

Date Collected: 07/24/13 11:20

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
2,4-Dinitrophenol	<0.77	*	0.77	0.20	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Benzo[a]anthracene	0.0097	J	0.038	0.0080	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B04

Lab Sample ID: 500-59745-44

Date Collected: 07/24/13 11:20

Matrix: Solid

Date Received: 07/25/13 06:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.015	J	0.038	0.0086	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Benzo[b]fluoranthene	0.013	J	0.038	0.0074	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Benzo[a]pyrene	0.0084	J	0.038	0.0069	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/01/13 17:46	08/05/13 21:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		30 - 110				08/01/13 17:46	08/05/13 21:10	1
Phenol-d5	82		31 - 110				08/01/13 17:46	08/05/13 21:10	1
Nitrobenzene-d5	71		30 - 115				08/01/13 17:46	08/05/13 21:10	1
2-Fluorobiphenyl	80		30 - 119				08/01/13 17:46	08/05/13 21:10	1
2,4,6-Tribromophenol	93		35 - 137				08/01/13 17:46	08/05/13 21:10	1
Terphenyl-d14	85		36 - 134				08/01/13 17:46	08/05/13 21:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Arsenic	6.6		0.55	0.11	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Barium	85		0.55	0.059	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Beryllium	0.57		0.22	0.020	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Boron	3.3		2.8	0.12	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Cadmium	0.35	B	0.11	0.014	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Calcium	14000	B	11	3.0	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Chromium	14		0.55	0.064	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Cobalt	12		0.28	0.020	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Copper	20	B	0.55	0.049	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Iron	19000		11	4.6	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Lead	37		0.28	0.083	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Magnesium	9200		5.5	1.1	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Manganese	620		0.55	0.030	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Nickel	26		0.55	0.054	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Potassium	1100		28	1.7	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Selenium	0.32	J	0.55	0.20	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Sodium	49	J	55	7.4	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Vanadium	18		0.28	0.041	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1
Zinc	75	B	1.1	0.22	mg/Kg	☼	07/25/13 12:30	07/30/13 01:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/15/13 13:30	08/16/13 18:26	1
Lead	0.010		0.0075	0.0050	mg/L		08/15/13 13:30	08/16/13 18:26	1
Manganese	10		0.025	0.010	mg/L		08/15/13 13:30	08/16/13 18:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

Client Sample ID: 846D-131-B04

Lab Sample ID: 500-59745-44

Date Collected: 07/24/13 11:20

Matrix: Solid

Date Received: 07/25/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.67		0.50	0.010	mg/L		07/29/13 12:00	08/06/13 04:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 12:00	08/06/13 04:39	1
Boron	0.79		0.10	0.050	mg/L		07/29/13 12:00	08/06/13 04:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 12:00	08/06/13 04:39	1
Chromium	0.046		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 04:39	1
Cobalt	0.017	J	0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 04:39	1
Iron	46		0.20	0.20	mg/L		07/29/13 12:00	08/06/13 04:39	1
Lead	0.065		0.0075	0.0050	mg/L		07/29/13 12:00	08/06/13 04:39	1
Manganese	0.53		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 04:39	1
Nickel	0.044		0.025	0.010	mg/L		07/29/13 12:00	08/06/13 04:39	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 12:00	08/06/13 04:39	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 12:00	08/06/13 04:39	1
Zinc	0.44		0.10	0.020	mg/L		07/29/13 12:00	08/06/13 04:39	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/29/13 12:00	08/06/13 22:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/29/13 12:00	08/09/13 15:00	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000048	J	0.00020	0.000020	mg/L		07/29/13 16:00	07/30/13 13:20	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.020	0.0092	mg/Kg	☆	07/26/13 14:00	07/29/13 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.82		0.200	0.200	SU			08/04/13 20:02	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59745-7

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
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

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



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: US6/IL7 WILLI COOK CO
 Project No.: IDOT 2013-022
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Lab Job No.: 500-59745
 Sample Temp: _____

COC No.: _____ of _____

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.

ANALYSES

	VOCs	SVOCs	BETX & MTBE	PNAAs	Pesticides	PCBS	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization
40	X	X					X	X	X	X	
41	X	X					X	X	X	X	
42	X	X					X	X	X	X	
43	X	X					X	X	X	X	
44	X	X					X	X	X	X	
45	X	X					X	X	X	X	

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	Date/Time
40	846D-131-B01	7/24/13	11:45A	S	7/24/13 4:15 PM
41	846D-131-B02	{	11:40A	S	7/24/13/1445
42	846D-131-B03		11:30A	S	
43	846D-131-B03 DUP		11:35A	S	
44	846D-131-B04	{	11:20A	S	7/25/13 0600
45	846D-131-B05		11:05A	S	

Relinquished by: Daniel J. MacMinn (AEI) [Signature] Date/Time: 7/24/13 4:15 PM

Relinquished by: [Signature] Date/Time: 7/24/13/1445

Relinquished by: [Signature] Date/Time: _____

Received by: [Signature] Date/Time: 7/24/13/1615

Received by: [Signature] Date/Time: 7/25/13 0600

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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

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

15901 Wolf Rd.

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.60028 Longitude: -87.89093
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 351 (U.S. 6/IL 7)
 Latitude: 41.60028 Longitude: -87.89093

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 846D-132-B01, AND -B04 WERE SAMPLED ADJACENT TO SITE No. 846D-132. SEE FIGURE 5, FIGURE 12, AND TABLE 3m OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORTS - TESTAMERICA JOB ID: 500-59862-4

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

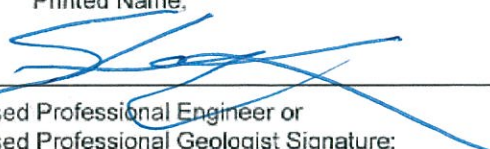
I, Steven Gobelman (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental 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: Illinois Department of Transportation, Bureau of Design and Environment
 Street Address: 2300 South Dirksen Parkway
 City: Springfield State: IL Zip Code: 62764
 Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

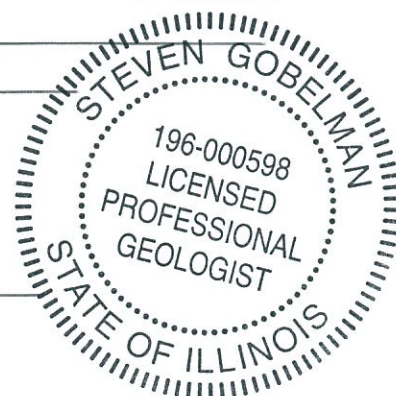
Printed Name:



Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

9/20/14

Date:



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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-132
Harris Bank

Sample ID	846D-132-B01	846D-132-B04	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)	0-1	0-1												
Sample Date	7/25/2013	7/25/2013												
PID	0	0												
Sample pH	8.21	8.03												
Matrix	Soil	Soil												
Semivolatile Organic Compounds (mg/kg)														
Benzo(a)pyrene	0.6	1.2	0.38	1.2	0.09	0.09	0.09	0.98	1.3	2.1	2.1	NA	NA	NA
Dibenzo(a,h)anthracene	J 0.1	1.2	0.072	1.2	0.09	0.09	0.15	0.2	0.42	0.42	0.42	NA	NA	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: 500-59862-4

Client Project/Site: IDOT - US 6/IL 7 - WO 022

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

8/19/2013 2:11:48 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

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results through
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www.testamericainc.com

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

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

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

1

2

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4

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8

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-4

Client Sample ID: 846D-132-B01

Lab Sample ID: 500-59862-11

Date Collected: 07/25/13 14:00

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0060		0.0060	0.0026	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Benzene	<0.0060		0.0060	0.00082	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Bromodichloromethane	<0.0060		0.0060	0.0010	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Bromoform	<0.0060		0.0060	0.0014	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Bromomethane	<0.0060		0.0060	0.0018	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
2-Butanone (MEK)	<0.0060		0.0060	0.0022	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Carbon disulfide	<0.0060		0.0060	0.00089	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Carbon tetrachloride	<0.0060		0.0060	0.0011	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Chlorobenzene	<0.0060		0.0060	0.00061	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Chloroethane	<0.0060		0.0060	0.0016	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Chloroform	<0.0060		0.0060	0.00069	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Chloromethane	<0.0060		0.0060	0.0013	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
cis-1,2-Dichloroethene	<0.0060		0.0060	0.00085	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
cis-1,3-Dichloropropene	<0.0060		0.0060	0.00079	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Dibromochloromethane	<0.0060		0.0060	0.0010	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
1,1-Dichloroethane	<0.0060		0.0060	0.00095	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
1,2-Dichloroethane	<0.0060		0.0060	0.00089	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
1,1-Dichloroethene	<0.0060		0.0060	0.00097	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
1,2-Dichloropropane	<0.0060		0.0060	0.00091	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
1,3-Dichloropropene, Total	<0.0060		0.0060	0.00079	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Ethylbenzene	<0.0060		0.0060	0.0012	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
2-Hexanone	<0.0060		0.0060	0.0017	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Methylene Chloride	<0.0060		0.0060	0.0016	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
4-Methyl-2-pentanone (MIBK)	<0.0060		0.0060	0.0016	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Methyl tert-butyl ether	<0.0060		0.0060	0.00099	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Styrene	<0.0060		0.0060	0.00079	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
1,1,1,2-Tetrachloroethane	<0.0060		0.0060	0.0012	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Tetrachloroethene	<0.0060		0.0060	0.00092	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Toluene	<0.0060		0.0060	0.00084	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
trans-1,2-Dichloroethene	<0.0060		0.0060	0.00082	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
trans-1,3-Dichloropropene	<0.0060		0.0060	0.0011	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
1,1,1-Trichloroethane	<0.0060		0.0060	0.00089	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
1,1,2-Trichloroethane	<0.0060		0.0060	0.00082	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Trichloroethene	<0.0060		0.0060	0.00099	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Vinyl acetate	<0.0060		0.0060	0.00094	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Vinyl chloride	<0.0060		0.0060	0.0013	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1
Xylenes, Total	<0.012		0.012	0.00054	mg/Kg	☼	07/25/13 14:00	08/02/13 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	07/25/13 14:00	08/02/13 19:59	1
Dibromofluoromethane	97		75 - 120	07/25/13 14:00	08/02/13 19:59	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/25/13 14:00	08/02/13 19:59	1
Toluene-d8 (Surr)	102		75 - 122	07/25/13 14:00	08/02/13 19:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.80		0.80	0.25	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Bis(2-chloroethyl)ether	<0.80		0.80	0.23	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
1,3-Dichlorobenzene	<0.80		0.80	0.17	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
1,4-Dichlorobenzene	<0.80		0.80	0.17	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-4

Client Sample ID: 846D-132-B01

Lab Sample ID: 500-59862-11

Date Collected: 07/25/13 14:00

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.80		0.80	0.17	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
2-Methylphenol	<0.80		0.80	0.21	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
2,2'-oxybis[1-chloropropane]	<0.80		0.80	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
N-Nitrosodi-n-propylamine	<0.80		0.80	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Hexachloroethane	<0.80		0.80	0.17	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
2-Chlorophenol	<0.80		0.80	0.23	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Nitrobenzene	<0.16	*	0.16	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Bis(2-chloroethoxy)methane	<0.80	*	0.80	0.17	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
1,2,4-Trichlorobenzene	<0.80	*	0.80	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Isophorone	<0.80		0.80	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
2,4-Dimethylphenol	<1.6		1.6	0.50	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Hexachlorobutadiene	<0.80		0.80	0.21	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Naphthalene	<0.16		0.16	0.031	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
2,4-Dichlorophenol	<1.6	*	1.6	0.48	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
4-Chloroaniline	<3.2		3.2	0.48	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
2,4,6-Trichlorophenol	<1.6		1.6	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
2,4,5-Trichlorophenol	<1.6		1.6	0.45	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Hexachlorocyclopentadiene	<3.2		3.2	0.73	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
2-Methylnaphthalene	<0.80		0.80	0.21	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
2-Nitroaniline	<0.80		0.80	0.29	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
2-Chloronaphthalene	<0.80		0.80	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
4-Chloro-3-methylphenol	<1.6		1.6	0.76	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
2,6-Dinitrotoluene	<0.80		0.80	0.19	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
2-Nitrophenol	<1.6	*	1.6	0.25	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
3-Nitroaniline	<1.6		1.6	0.31	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Dimethyl phthalate	<0.80		0.80	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
2,4-Dinitrophenol	<3.2		3.2	0.81	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Acenaphthylene	<0.16		0.16	0.036	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
2,4-Dinitrotoluene	<0.80		0.80	0.24	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Acenaphthene	<0.16		0.16	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Dibenzofuran	<0.80		0.80	0.19	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
4-Nitrophenol	<3.2		3.2	0.85	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Fluorene	<0.16		0.16	0.036	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
4-Nitroaniline	<1.6		1.6	0.32	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
4-Bromophenyl phenyl ether	<0.80		0.80	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Hexachlorobenzene	<0.32		0.32	0.031	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Diethyl phthalate	<0.80	*	0.80	0.26	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
4-Chlorophenyl phenyl ether	<0.80	*	0.80	0.25	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Pentachlorophenol	<3.2		3.2	0.81	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
N-Nitrosodiphenylamine	<0.80		0.80	0.21	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
4,6-Dinitro-2-methylphenol	<1.6		1.6	0.38	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Phenanthrene	0.28		0.16	0.066	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Anthracene	0.063	J	0.16	0.037	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Carbazole	<0.80		0.80	0.22	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Di-n-butyl phthalate	<0.80		0.80	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Fluoranthene	0.91		0.16	0.065	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Pyrene	0.87		0.16	0.057	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Butyl benzyl phthalate	1.5		0.80	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Benzo[a]anthracene	0.50		0.16	0.033	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-4

Client Sample ID: 846D-132-B01

Lab Sample ID: 500-59862-11

Date Collected: 07/25/13 14:00

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.61		0.16	0.036	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
3,3'-Dichlorobenzidine	<0.80		0.80	0.13	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Bis(2-ethylhexyl) phthalate	<0.80		0.80	0.21	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Di-n-octyl phthalate	<0.80		0.80	0.32	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Benzo[b]fluoranthene	0.83		0.16	0.031	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Benzo[k]fluoranthene	0.26		0.16	0.038	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Benzo[a]pyrene	0.60		0.16	0.029	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Indeno[1,2,3-cd]pyrene	0.37		0.16	0.053	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Dibenz(a,h)anthracene	0.10	J	0.16	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Benzo[g,h,i]perylene	0.49		0.16	0.053	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
3 & 4 Methylphenol	<0.80		0.80	0.30	mg/Kg	☼	08/04/13 19:29	08/08/13 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		30 - 110				08/04/13 19:29	08/08/13 18:14	1
Phenol-d5	78		31 - 110				08/04/13 19:29	08/08/13 18:14	1
Nitrobenzene-d5	67		30 - 115				08/04/13 19:29	08/08/13 18:14	1
2-Fluorobiphenyl	86		30 - 119				08/04/13 19:29	08/08/13 18:14	1
2,4,6-Tribromophenol	91		35 - 137				08/04/13 19:29	08/08/13 18:14	1
Terphenyl-d14	96		36 - 134				08/04/13 19:29	08/08/13 18:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.1	0.45	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Arsenic	5.8		0.56	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Barium	92		0.56	0.060	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Beryllium	0.82		0.23	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Boron	4.3	B	2.8	0.12	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Cadmium	0.34		0.11	0.014	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Calcium	60000	B	110	31	mg/Kg	☼	07/28/13 17:00	08/13/13 07:19	10
Chromium	11		0.56	0.065	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Cobalt	7.3		0.28	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Copper	15	B	0.56	0.050	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Iron	12000	B	11	4.6	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Lead	37		0.28	0.084	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Magnesium	26000	B	5.6	1.2	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Manganese	500	B	0.56	0.031	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Nickel	15		0.56	0.055	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Potassium	1100	B	28	1.7	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Selenium	0.62		0.56	0.20	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Sodium	220		56	7.6	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Vanadium	16		0.28	0.042	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1
Zinc	66	B	1.1	0.23	mg/Kg	☼	07/28/13 17:00	08/07/13 21:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 02:10	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 02:10	1
Manganese	0.075		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 02:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-4

Client Sample ID: 846D-132-B01

Lab Sample ID: 500-59862-11

Date Collected: 07/25/13 14:00

Matrix: Solid

Date Received: 07/26/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.85		0.50	0.010	mg/L		07/30/13 10:30	08/07/13 17:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 17:49	1
Boron	0.95		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 17:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 17:49	1
Chromium	0.053		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:49	1
Cobalt	0.0077	J	0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:49	1
Iron	46		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 17:49	1
Lead	0.055		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 17:49	1
Manganese	0.30		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:49	1
Nickel	0.034		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:49	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 17:49	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:49	1
Zinc	0.61		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 17:49	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 15:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 15:52	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000067	J	0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 11:51	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.018	0.0085	mg/Kg	☆	07/29/13 13:00	07/30/13 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.21		0.200	0.200	SU			08/08/13 17:26	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-4

Client Sample ID: 846D-132-B04

Lab Sample ID: 500-59862-13

Date Collected: 07/25/13 13:50

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0055		0.0055	0.0024	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Benzene	<0.0055		0.0055	0.00075	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Bromodichloromethane	<0.0055		0.0055	0.00094	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Bromoform	<0.0055		0.0055	0.0013	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Bromomethane	<0.0055		0.0055	0.0016	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Carbon disulfide	<0.0055		0.0055	0.00082	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Carbon tetrachloride	<0.0055		0.0055	0.00099	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Chlorobenzene	<0.0055		0.0055	0.00055	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Chloroethane	<0.0055		0.0055	0.0015	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Chloroform	<0.0055		0.0055	0.00063	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Chloromethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.00077	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.00072	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Dibromochloromethane	<0.0055		0.0055	0.00095	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
1,1-Dichloroethane	<0.0055		0.0055	0.00086	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
1,1-Dichloroethene	<0.0055		0.0055	0.00088	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
1,2-Dichloropropane	<0.0055		0.0055	0.00083	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.00072	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Ethylbenzene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
2-Hexanone	<0.0055		0.0055	0.0016	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Methylene Chloride	<0.0055		0.0055	0.0015	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0014	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Methyl tert-butyl ether	<0.0055		0.0055	0.00090	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Styrene	<0.0055		0.0055	0.00072	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Tetrachloroethene	<0.0055		0.0055	0.00083	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Toluene	<0.0055		0.0055	0.00076	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.00075	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.00098	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.00075	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Trichloroethene	<0.0055		0.0055	0.00090	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Vinyl acetate	<0.0055		0.0055	0.00086	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Vinyl chloride	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	07/25/13 13:50	08/02/13 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	07/25/13 13:50	08/02/13 20:44	1
Dibromofluoromethane	96		75 - 120	07/25/13 13:50	08/02/13 20:44	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/25/13 13:50	08/02/13 20:44	1
Toluene-d8 (Surr)	99		75 - 122	07/25/13 13:50	08/02/13 20:44	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	☼	08/04/13 19:29	08/09/13 15:38	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-4

Client Sample ID: 846D-132-B04

Lab Sample ID: 500-59862-13

Date Collected: 07/25/13 13:50

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Nitrobenzene	<0.036	*	0.036	0.011	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Bis(2-chloroethoxy)methane	<0.18	*	0.18	0.040	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
1,2,4-Trichlorobenzene	<0.18	*	0.18	0.041	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
2,4-Dichlorophenol	<0.36	*	0.36	0.11	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
2-Nitrophenol	<0.36	*	0.36	0.057	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Acenaphthene	0.011	J	0.036	0.011	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Fluorene	0.013	J	0.036	0.0083	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Diethyl phthalate	<0.18	*	0.18	0.061	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
4-Chlorophenyl phenyl ether	<0.18	*	0.18	0.057	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Phenanthrene	0.25		0.036	0.015	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Anthracene	0.048		0.036	0.0086	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Fluoranthene	0.95		0.036	0.015	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Pyrene	0.86		0.036	0.013	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Benzo[a]anthracene	0.42		0.036	0.0076	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-4

Client Sample ID: 846D-132-B04

Lab Sample ID: 500-59862-13

Date Collected: 07/25/13 13:50

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.47		0.036	0.0082	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Benzo[b]fluoranthene	0.70		0.036	0.0071	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Benzo[k]fluoranthene	0.24		0.036	0.0087	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Benzo[a]pyrene	0.38		0.036	0.0066	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Indeno[1,2,3-cd]pyrene	0.22		0.036	0.012	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Dibenz(a,h)anthracene	0.072		0.036	0.010	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Benzo[g,h,i]perylene	0.27		0.036	0.012	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/04/13 19:29	08/09/13 15:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		30 - 110				08/04/13 19:29	08/09/13 15:38	1
Phenol-d5	66		31 - 110				08/04/13 19:29	08/09/13 15:38	1
Nitrobenzene-d5	58		30 - 115				08/04/13 19:29	08/09/13 15:38	1
2-Fluorobiphenyl	68		30 - 119				08/04/13 19:29	08/09/13 15:38	1
2,4,6-Tribromophenol	73		35 - 137				08/04/13 19:29	08/09/13 15:38	1
Terphenyl-d14	106		36 - 134				08/04/13 19:29	08/09/13 15:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.51	J	1.1	0.46	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Arsenic	3.9		0.57	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Barium	20		0.57	0.061	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Beryllium	0.19	J	0.23	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Boron	8.6	B	2.8	0.12	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Cadmium	0.19		0.11	0.014	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Calcium	160000	B	110	31	mg/Kg	☼	07/28/13 17:00	08/13/13 07:27	10
Chromium	4.6		0.57	0.066	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Cobalt	3.6		0.28	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Copper	5.8	B	0.57	0.050	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Iron	6000	B	11	4.7	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Lead	12		0.28	0.084	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Magnesium	95000	B	57	12	mg/Kg	☼	07/28/13 17:00	08/13/13 07:27	10
Manganese	220	B	0.57	0.031	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Nickel	8.0		0.57	0.056	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Potassium	680	B	28	1.7	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Selenium	0.57		0.57	0.20	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Sodium	210		57	7.6	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Vanadium	5.8		0.28	0.042	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1
Zinc	19	B	1.1	0.23	mg/Kg	☼	07/28/13 17:00	08/07/13 21:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 02:22	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 02:22	1
Manganese	0.073		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 02:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-4

Client Sample ID: 846D-132-B04

Lab Sample ID: 500-59862-13

Date Collected: 07/25/13 13:50

Matrix: Solid

Date Received: 07/26/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71		0.50	0.010	mg/L		07/30/13 10:30	08/07/13 17:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 17:56	1
Boron	0.82		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 17:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 17:56	1
Chromium	0.064		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:56	1
Cobalt	0.015	J	0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:56	1
Iron	58		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 17:56	1
Lead	0.072		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 17:56	1
Manganese	0.44		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:56	1
Nickel	0.054		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 17:56	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 17:56	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 17:56	1
Zinc	0.59		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 17:56	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 15:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 15:53	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000075	J	0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 11:55	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0084	mg/Kg	☆	07/29/13 13:00	07/30/13 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.03		0.200	0.200	SU			08/08/13 17:34	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-4

Qualifiers

GC/MS Semi VOA

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

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.

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact
Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711
217-787-2334
Contact: Colleen Grey
email: cgrey@andrews-eng.com

Laboratory
Lab: Test America - Chicago
Address: 2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200
Contact: Dick Wright
email: richard.wright@testamerica.com

Project Name: US6/IL7 WILL/COOK CO
Project No.: IDOT 2013-022
TAT: [x]15 BD []10 BD []5 BD []2 BD Other
Sampler: AEI

COC No.:
Lab Job No.: 500-59862
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.

Table with columns: 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. Rows 11-13 contain data.

Relinquished by: Daniel J. Mackinson (AEI) Date/Time 7/25/13 4:15 PM
Relinquished by: [Signature] Date/Time 7-25-13/1700
Relinquished by: [Signature] Date/Time 7-25-13/1617



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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
10970 to 11190 W 159th St.

City: Orland Park State: IL Zip Code: 60462

County: Cook Township: Orland

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

Latitude: 41.60125 Longitude: -87.88952
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

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

Project Name: FAP 351 (U.S. 6/IL 7)
 Latitude: 41.60125 Longitude: -87.88952

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 846D-134-B01 THRU -B09 WERE SAMPLED ADJACENT TO SITE No. 846D-134. SEE FIGURE 5, FIGURE 6, FIGURE 13, AND TABLE 3n OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORTS - TESTAMERICA JOB IDs: 500-59862-5 & 500-59941-2

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

I, Steven Gobelman (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: Illinois Department of Transportation, Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

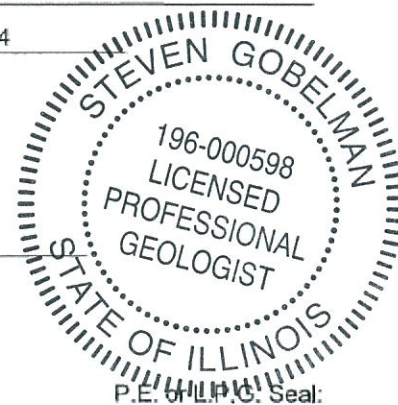
Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

9/20/14

Date:



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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-134
Vacant Land

Sample ID	846D-134-B01	846D-134-B02	846D-134-B03	846D-134-B03 DUP	846D-134-B04													
Sample Depth (ft)	0-4	0-4	0-1	0-1	0-1													
Sample Date	7/26/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013													
PID	0	0	0	0	0													
Sample pH	8.48	8.71	6.31	7.1	6.98													
Matrix	Soil	Soil	Soil	Soil	Soil													
Semivolatile Organic Compounds (mg/kg)																		
Benzo(a)pyrene	ND	ND	ND	0.049	J 0.025					0.09	0.09	0.98	1.3	2.1				NA

Sample ID	846D-134-B05	846D-134-B06	846D-134-B07	846D-134-B08	846D-134-B09													
Sample Depth (ft)	0-1	0-1	0-1	0-4	0-4													
Sample Date	7/26/2013	7/26/2013	7/26/2013	7/25/2013	7/25/2013													
PID	0	0	0	0	0													
Sample pH	7.82	7.74	7.47	8.48	8.21													
Matrix	Soil	Soil	Soil	Soil	Soil													
Semivolatile Organic Compounds (mg/kg)																		
Benzo(a)pyrene	0.22	1.2	0.04	J 0.027	J 0.011					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: 500-59941-2
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/21/2013 1:51:11 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

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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 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B01

Lab Sample ID: 500-59941-2

Date Collected: 07/26/13 09:25

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 86.9

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	☼	07/26/13 09:25	08/01/13 22:40	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	07/26/13 09:25	08/01/13 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	07/26/13 09:25	08/01/13 22:40	1
Dibromofluoromethane	97		75 - 120	07/26/13 09:25	08/01/13 22:40	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	07/26/13 09:25	08/01/13 22:40	1
Toluene-d8 (Surr)	95		75 - 122	07/26/13 09:25	08/01/13 22:40	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	☼	08/06/13 07:15	08/14/13 17:46	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B01

Lab Sample ID: 500-59941-2

Date Collected: 07/26/13 09:25

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B01

Lab Sample ID: 500-59941-2

Date Collected: 07/26/13 09:25

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/06/13 07:15	08/14/13 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		30 - 110	08/06/13 07:15	08/14/13 17:46	1
Phenol-d5	85		31 - 110	08/06/13 07:15	08/14/13 17:46	1
Nitrobenzene-d5	75		30 - 115	08/06/13 07:15	08/14/13 17:46	1
2-Fluorobiphenyl	86		30 - 119	08/06/13 07:15	08/14/13 17:46	1
2,4,6-Tribromophenol	92		35 - 137	08/06/13 07:15	08/14/13 17:46	1
Terphenyl-d14	101		36 - 134	08/06/13 07:15	08/14/13 17:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Arsenic	8.9		0.56	0.11	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Barium	46		0.56	0.060	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Beryllium	0.45		0.22	0.020	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Boron	3.7		2.8	0.12	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Cadmium	0.61		0.11	0.014	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Calcium	26000	B	11	3.0	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Chromium	11		0.56	0.065	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Cobalt	7.9	B	0.28	0.020	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Copper	23		0.56	0.050	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Iron	17000		11	4.6	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Lead	15		0.28	0.083	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Magnesium	17000	B	5.6	1.1	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Manganese	350	B	0.56	0.030	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Nickel	18	B	0.56	0.055	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Potassium	950	B	28	1.7	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/30/13 09:37	08/17/13 19:14	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Sodium	150		56	7.5	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Vanadium	15	B	0.28	0.041	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1
Zinc	31		1.1	0.23	mg/Kg	☼	07/30/13 09:37	08/13/13 05:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 04:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B01

Lab Sample ID: 500-59941-2

Date Collected: 07/26/13 09:25

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.26	J B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 20:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 20:45	1
Boron	0.32		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 20:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 20:45	1
Chromium	0.027		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 20:45	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 20:45	1
Iron	6.4		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 20:45	1
Lead	0.0053	J	0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 20:45	1
Manganese	0.055		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 20:45	1
Nickel	<0.025		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 20:45	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 20:45	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 20:45	1
Zinc	0.16		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 20:45	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:29	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 11:21	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0085	mg/Kg	✱	07/31/13 17:30	08/01/13 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.48		0.200	0.200	SU			08/09/13 11:54	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B02

Lab Sample ID: 500-59941-3

Date Collected: 07/26/13 09:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0043	J	0.0052	0.0022	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Chlorobenzene	<0.0052		0.0052	0.00052	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Chloroform	<0.0052		0.0052	0.00059	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
1,1-Dichloroethene	<0.0052		0.0052	0.00083	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
1,2-Dichloropropane	<0.0052		0.0052	0.00078	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00085	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Toluene	<0.0052		0.0052	0.00072	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00070	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Vinyl acetate	<0.0052		0.0052	0.00081	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	07/26/13 09:30	08/01/13 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/26/13 09:30	08/01/13 23:03	1
Dibromofluoromethane	93		75 - 120	07/26/13 09:30	08/01/13 23:03	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	07/26/13 09:30	08/01/13 23:03	1
Toluene-d8 (Surr)	97		75 - 122	07/26/13 09:30	08/01/13 23:03	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	☼	08/06/13 07:15	08/14/13 18:50	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B02

Lab Sample ID: 500-59941-3

Date Collected: 07/26/13 09:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Naphthalene	<0.037		0.037	0.0073	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Acenaphthylene	<0.037		0.037	0.0087	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Anthracene	<0.037		0.037	0.0089	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B02

Lab Sample ID: 500-59941-3

Date Collected: 07/26/13 09:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Benzo[a]pyrene	<0.037		0.037	0.0069	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/06/13 07:15	08/14/13 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		30 - 110	08/06/13 07:15	08/14/13 18:50	1
Phenol-d5	83		31 - 110	08/06/13 07:15	08/14/13 18:50	1
Nitrobenzene-d5	72		30 - 115	08/06/13 07:15	08/14/13 18:50	1
2-Fluorobiphenyl	83		30 - 119	08/06/13 07:15	08/14/13 18:50	1
2,4,6-Tribromophenol	76		35 - 137	08/06/13 07:15	08/14/13 18:50	1
Terphenyl-d14	108		36 - 134	08/06/13 07:15	08/14/13 18:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Arsenic	8.2		0.57	0.11	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Barium	32		0.57	0.061	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Beryllium	0.45		0.23	0.020	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Boron	4.8		2.8	0.12	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Cadmium	0.68		0.11	0.014	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Calcium	31000	B	11	3.1	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Chromium	11		0.57	0.066	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Cobalt	8.9	B	0.28	0.020	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Copper	26		0.57	0.050	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Iron	18000		11	4.7	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Lead	18		0.28	0.085	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Magnesium	19000	B	5.7	1.2	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Manganese	330	B	0.57	0.031	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Nickel	22	B	0.57	0.056	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Potassium	1200	B	28	1.7	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	07/30/13 09:37	08/17/13 19:20	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Sodium	110		57	7.6	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Thallium	0.29	J	0.57	0.24	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Vanadium	14	B	0.28	0.042	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1
Zinc	52		1.1	0.23	mg/Kg	☼	07/30/13 09:37	08/13/13 05:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 04:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B02

Lab Sample ID: 500-59941-3

Date Collected: 07/26/13 09:30

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.39	J B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 20:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 20:52	1
Boron	0.60		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 20:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 20:52	1
Chromium	0.011	J	0.025	0.010	mg/L		08/04/13 07:45	08/12/13 20:52	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 20:52	1
Iron	5.2		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 20:52	1
Lead	0.0067	J	0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 20:52	1
Manganese	0.026		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 20:52	1
Nickel	<0.025		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 20:52	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 20:52	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 20:52	1
Zinc	0.30		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 20:52	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:30	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 11:23	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.018	0.0087	mg/Kg	☆	07/31/13 17:30	08/01/13 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.71		0.200	0.200	SU			08/09/13 11:56	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B03

Lab Sample ID: 500-59941-4

Date Collected: 07/26/13 09:40

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0065		0.0065	0.0028	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Benzene	<0.0065		0.0065	0.00089	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Bromodichloromethane	<0.0065		0.0065	0.0011	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Bromoform	<0.0065		0.0065	0.0015	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Bromomethane	<0.0065		0.0065	0.0020	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
2-Butanone (MEK)	<0.0065		0.0065	0.0024	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Carbon disulfide	<0.0065		0.0065	0.00097	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Carbon tetrachloride	<0.0065		0.0065	0.0012	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Chlorobenzene	<0.0065		0.0065	0.00066	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Chloroethane	<0.0065		0.0065	0.0018	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Chloroform	<0.0065		0.0065	0.00075	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Chloromethane	<0.0065		0.0065	0.0014	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
cis-1,2-Dichloroethene	<0.0065		0.0065	0.00092	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
cis-1,3-Dichloropropene	<0.0065		0.0065	0.00085	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Dibromochloromethane	<0.0065		0.0065	0.0011	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
1,1-Dichloroethane	<0.0065		0.0065	0.0010	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
1,2-Dichloroethane	<0.0065		0.0065	0.00096	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
1,1-Dichloroethene	<0.0065		0.0065	0.0010	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
1,2-Dichloropropane	<0.0065		0.0065	0.00099	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
1,3-Dichloropropene, Total	<0.0065		0.0065	0.00085	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Ethylbenzene	<0.0065		0.0065	0.0013	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
2-Hexanone	<0.0065		0.0065	0.0019	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Methylene Chloride	<0.0065		0.0065	0.0018	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
4-Methyl-2-pentanone (MIBK)	<0.0065		0.0065	0.0017	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Methyl tert-butyl ether	<0.0065		0.0065	0.0011	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Styrene	<0.0065		0.0065	0.00085	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
1,1,2,2-Tetrachloroethane	<0.0065		0.0065	0.0013	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Tetrachloroethene	<0.0065		0.0065	0.00099	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Toluene	<0.0065		0.0065	0.00091	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
trans-1,2-Dichloroethene	<0.0065		0.0065	0.00089	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
trans-1,3-Dichloropropene	<0.0065		0.0065	0.0012	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
1,1,1-Trichloroethane	<0.0065		0.0065	0.00097	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
1,1,2-Trichloroethane	<0.0065		0.0065	0.00089	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Trichloroethene	<0.0065		0.0065	0.0011	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Vinyl acetate	<0.0065		0.0065	0.0010	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Vinyl chloride	<0.0065		0.0065	0.0014	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1
Xylenes, Total	<0.013		0.013	0.00059	mg/Kg	☼	07/26/13 09:40	08/01/13 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	07/26/13 09:40	08/01/13 23:26	1
Dibromofluoromethane	99		75 - 120	07/26/13 09:40	08/01/13 23:26	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/26/13 09:40	08/01/13 23:26	1
Toluene-d8 (Surr)	99		75 - 122	07/26/13 09:40	08/01/13 23:26	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	☼	08/06/13 07:15	08/16/13 14:10	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B03

Lab Sample ID: 500-59941-4

Date Collected: 07/26/13 09:40

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
3-Nitroaniline	<0.41		0.41	0.080	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Acenaphthylene	<0.041		0.041	0.0095	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
4-Nitrophenol	<0.84		0.84	0.22	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Fluorene	<0.041		0.041	0.0094	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
4-Nitroaniline	<0.41		0.41	0.085	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Phenanthrene	0.017	J	0.041	0.017	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Fluoranthene	0.034	J	0.041	0.017	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Pyrene	0.038	J	0.041	0.015	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Benzo[a]anthracene	0.022	J	0.041	0.0087	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B03

Lab Sample ID: 500-59941-4

Date Collected: 07/26/13 09:40

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.032	J	0.041	0.0094	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Di-n-octyl phthalate	<0.21		0.21	0.084	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Benzo[b]fluoranthene	0.038	J	0.041	0.0080	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Benzo[k]fluoranthene	0.022	J	0.041	0.0099	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Benzo[a]pyrene	<0.041		0.041	0.0075	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Indeno[1,2,3-cd]pyrene	0.020	J	0.041	0.014	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Dibenz(a,h)anthracene	<0.041		0.041	0.012	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Benzo[g,h,i]perylene	0.030	J	0.041	0.014	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	08/06/13 07:15	08/16/13 14:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	48		30 - 110				08/06/13 07:15	08/16/13 14:10	1
Phenol-d5	51		31 - 110				08/06/13 07:15	08/16/13 14:10	1
Nitrobenzene-d5	47		30 - 115				08/06/13 07:15	08/16/13 14:10	1
2-Fluorobiphenyl	60		30 - 119				08/06/13 07:15	08/16/13 14:10	1
2,4,6-Tribromophenol	68		35 - 137				08/06/13 07:15	08/16/13 14:10	1
Terphenyl-d14	73		36 - 134				08/06/13 07:15	08/16/13 14:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Arsenic	5.6		0.62	0.12	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Barium	110		0.62	0.066	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Beryllium	0.59		0.25	0.022	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Boron	5.0		3.1	0.13	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Cadmium	0.63		0.12	0.016	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Calcium	6200	B	12	3.4	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Chromium	13		0.62	0.072	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Cobalt	5.5	B	0.31	0.022	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Copper	20		0.62	0.055	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Iron	13000		12	5.1	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Lead	49		0.31	0.092	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Magnesium	3100	B	6.2	1.3	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Manganese	410	B	0.62	0.034	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Nickel	13	B	0.62	0.061	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Potassium	1800	B	31	1.9	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Selenium	0.62		0.62	0.22	mg/Kg	☼	07/30/13 09:37	08/17/13 19:26	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Sodium	960		62	8.3	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Thallium	0.37	J	0.62	0.26	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Vanadium	18	B	0.31	0.046	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1
Zinc	76		1.2	0.25	mg/Kg	☼	07/30/13 09:37	08/13/13 05:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.71		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 04:51	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 04:51	1
Manganese	0.081		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 04:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B03

Lab Sample ID: 500-59941-4

Date Collected: 07/26/13 09:40

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61	B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 20:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 20:58	1
Boron	0.65		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 20:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 20:58	1
Chromium	0.049		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 20:58	1
Cobalt	0.0077	J	0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 20:58	1
Iron	36		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 20:58	1
Lead	0.034		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 20:58	1
Manganese	0.21		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 20:58	1
Nickel	0.028		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 20:58	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 20:58	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 20:58	1
Zinc	0.48		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 20:58	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:30	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 11:28	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062		0.021	0.0099	mg/Kg	✱	07/31/13 17:30	08/01/13 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.31		0.200	0.200	SU			08/09/13 11:58	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B04

Lab Sample ID: 500-59941-5

Date Collected: 07/26/13 09:45

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 73.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.019		0.0060	0.0026	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Benzene	<0.0060		0.0060	0.00082	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Bromodichloromethane	<0.0060		0.0060	0.0010	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Bromoform	<0.0060		0.0060	0.0014	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Bromomethane	<0.0060		0.0060	0.0018	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
2-Butanone (MEK)	<0.0060		0.0060	0.0022	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Carbon disulfide	<0.0060		0.0060	0.00090	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Carbon tetrachloride	<0.0060		0.0060	0.0011	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Chlorobenzene	<0.0060		0.0060	0.00061	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Chloroethane	<0.0060		0.0060	0.0016	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Chloroform	<0.0060		0.0060	0.00069	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Chloromethane	<0.0060		0.0060	0.0013	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
cis-1,2-Dichloroethene	<0.0060		0.0060	0.00085	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
cis-1,3-Dichloropropene	<0.0060		0.0060	0.00079	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Dibromochloromethane	<0.0060		0.0060	0.0010	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
1,1-Dichloroethane	<0.0060		0.0060	0.00095	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
1,2-Dichloroethane	<0.0060		0.0060	0.00089	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
1,1-Dichloroethene	<0.0060		0.0060	0.00097	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
1,2-Dichloropropane	<0.0060		0.0060	0.00091	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
1,3-Dichloropropene, Total	<0.0060		0.0060	0.00079	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Ethylbenzene	<0.0060		0.0060	0.0012	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
2-Hexanone	<0.0060		0.0060	0.0017	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Methylene Chloride	<0.0060		0.0060	0.0016	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
4-Methyl-2-pentanone (MIBK)	<0.0060		0.0060	0.0016	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Methyl tert-butyl ether	<0.0060		0.0060	0.00099	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Styrene	<0.0060		0.0060	0.00079	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
1,1,2,2-Tetrachloroethane	<0.0060		0.0060	0.0012	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Tetrachloroethene	<0.0060		0.0060	0.00092	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Toluene	<0.0060		0.0060	0.00084	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
trans-1,2-Dichloroethene	<0.0060		0.0060	0.00082	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
trans-1,3-Dichloropropene	<0.0060		0.0060	0.0011	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
1,1,1-Trichloroethane	<0.0060		0.0060	0.00090	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
1,1,2-Trichloroethane	<0.0060		0.0060	0.00082	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Trichloroethene	<0.0060		0.0060	0.00099	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Vinyl acetate	<0.0060		0.0060	0.00094	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Vinyl chloride	<0.0060		0.0060	0.0013	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1
Xylenes, Total	<0.012		0.012	0.00054	mg/Kg	☼	07/26/13 09:45	08/01/13 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	07/26/13 09:45	08/01/13 23:49	1
Dibromofluoromethane	104		75 - 120	07/26/13 09:45	08/01/13 23:49	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	07/26/13 09:45	08/01/13 23:49	1
Toluene-d8 (Surr)	94		75 - 122	07/26/13 09:45	08/01/13 23:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.069	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
1,3-Dichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
1,4-Dichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B04

Lab Sample ID: 500-59941-5

Date Collected: 07/26/13 09:45

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 73.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
2-Methylphenol	<0.22		0.22	0.058	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.055	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Hexachloroethane	<0.22		0.22	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
2-Chlorophenol	<0.22		0.22	0.062	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Nitrobenzene	<0.043		0.043	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
2,4-Dimethylphenol	<0.43		0.43	0.14	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Hexachlorobutadiene	<0.22		0.22	0.057	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Naphthalene	<0.043		0.043	0.0084	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
2,4-Dichlorophenol	<0.43		0.43	0.13	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
4-Chloroaniline	<0.88		0.88	0.13	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
2,4,6-Trichlorophenol	<0.43		0.43	0.055	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
2,4,5-Trichlorophenol	<0.43		0.43	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Hexachlorocyclopentadiene	<0.88		0.88	0.20	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
2-Methylnaphthalene	<0.22		0.22	0.056	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
2-Nitroaniline	<0.22		0.22	0.078	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
2-Chloronaphthalene	<0.22		0.22	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
4-Chloro-3-methylphenol	<0.43		0.43	0.21	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
2,6-Dinitrotoluene	<0.22		0.22	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
2-Nitrophenol	<0.43		0.43	0.068	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
3-Nitroaniline	<0.43		0.43	0.084	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Dimethyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
2,4-Dinitrophenol	<0.88		0.88	0.22	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Acenaphthylene	<0.043		0.043	0.010	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
2,4-Dinitrotoluene	<0.22		0.22	0.067	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Acenaphthene	<0.043		0.043	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Dibenzofuran	<0.22		0.22	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
4-Nitrophenol	<0.88		0.88	0.23	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Fluorene	<0.043		0.043	0.0099	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
4-Nitroaniline	<0.43		0.43	0.089	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Hexachlorobenzene	<0.088		0.088	0.0086	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.069	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Pentachlorophenol	<0.88		0.88	0.22	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
N-Nitrosodiphenylamine	<0.22		0.22	0.059	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
4,6-Dinitro-2-methylphenol	<0.43		0.43	0.11	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Phenanthrene	<0.043		0.043	0.018	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Anthracene	<0.043		0.043	0.010	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Carbazole	<0.22		0.22	0.061	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Di-n-butyl phthalate	<0.22		0.22	0.055	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Fluoranthene	0.036	J	0.043	0.018	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Pyrene	0.039	J	0.043	0.016	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Butyl benzyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Benzo[a]anthracene	0.018	J	0.043	0.0091	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B04

Lab Sample ID: 500-59941-5

Date Collected: 07/26/13 09:45

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 73.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.024	J	0.043	0.0098	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.036	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.058	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Di-n-octyl phthalate	<0.22		0.22	0.088	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Benzo[b]fluoranthene	0.034	J	0.043	0.0084	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Benzo[k]fluoranthene	0.013	J	0.043	0.010	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Benzo[a]pyrene	0.025	J	0.043	0.0079	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.043	0.015	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Dibenz(a,h)anthracene	<0.043		0.043	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
Benzo[g,h,i]perylene	0.019	J	0.043	0.015	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1
3 & 4 Methylphenol	<0.22		0.22	0.082	mg/Kg	☼	08/06/13 07:15	08/14/13 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	43		30 - 110	08/06/13 07:15	08/14/13 19:33	1
Phenol-d5	51		31 - 110	08/06/13 07:15	08/14/13 19:33	1
Nitrobenzene-d5	50		30 - 115	08/06/13 07:15	08/14/13 19:33	1
2-Fluorobiphenyl	63		30 - 119	08/06/13 07:15	08/14/13 19:33	1
2,4,6-Tribromophenol	86		35 - 137	08/06/13 07:15	08/14/13 19:33	1
Terphenyl-d14	111		36 - 134	08/06/13 07:15	08/14/13 19:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.53	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Arsenic	6.7		0.65	0.13	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Barium	77		0.65	0.070	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Beryllium	0.67		0.26	0.023	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Boron	3.0	J	3.3	0.14	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Cadmium	0.44		0.13	0.017	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Calcium	5100	B	13	3.5	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Chromium	15		0.65	0.076	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Cobalt	9.5	B	0.33	0.023	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Copper	18		0.65	0.058	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Iron	18000		13	5.4	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Lead	21		0.33	0.097	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Magnesium	4400	B	6.5	1.3	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Manganese	300	B	0.65	0.036	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Nickel	19	B	0.65	0.064	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Potassium	1300	B	33	2.0	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Selenium	0.41	J	0.65	0.23	mg/Kg	☼	07/30/13 09:37	08/17/13 19:33	1
Silver	<0.33		0.33	0.024	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Sodium	460		65	8.8	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Thallium	<0.65		0.65	0.28	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Vanadium	21	B	0.33	0.048	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1
Zinc	46		1.3	0.26	mg/Kg	☼	07/30/13 09:37	08/13/13 05:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.1		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 04:57	1
Lead	0.0091		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 04:57	1
Manganese	5.5		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 04:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B04

Lab Sample ID: 500-59941-5

Date Collected: 07/26/13 09:45

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59	B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 21:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 21:19	1
Boron	0.72		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 21:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 21:19	1
Chromium	0.048		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:19	1
Cobalt	0.016	J	0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 21:19	1
Iron	40		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 21:19	1
Lead	0.050		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 21:19	1
Manganese	0.29		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:19	1
Nickel	0.041		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:19	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 21:19	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 21:19	1
Zinc	0.45		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 21:19	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:33	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000023	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 11:35	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.022	0.010	mg/Kg	☆	07/31/13 17:30	08/01/13 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.98		0.200	0.200	SU			08/09/13 12:01	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B05

Lab Sample ID: 500-59941-6

Date Collected: 07/26/13 09:50

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 79.2

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	☼	07/26/13 09:50	08/02/13 00:12	1
Benzene	<0.0054		0.0054	0.00074	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Bromodichloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
2-Butanone (MEK)	<0.0054		0.0054	0.0020	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Carbon disulfide	<0.0054		0.0054	0.00081	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Carbon tetrachloride	<0.0054		0.0054	0.00098	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Chlorobenzene	<0.0054		0.0054	0.00055	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Chloroethane	<0.0054		0.0054	0.0015	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00071	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Dibromochloromethane	<0.0054		0.0054	0.00094	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
1,1-Dichloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
1,1-Dichloroethene	<0.0054		0.0054	0.00087	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
1,2-Dichloropropane	<0.0054		0.0054	0.00082	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00071	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
2-Hexanone	<0.0054		0.0054	0.0016	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00089	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Styrene	<0.0054		0.0054	0.00071	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
1,1,1,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Tetrachloroethene	<0.0054		0.0054	0.00083	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Toluene	<0.0054		0.0054	0.00076	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00074	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00097	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00081	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00074	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Trichloroethene	<0.0054		0.0054	0.00089	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Vinyl acetate	<0.0054		0.0054	0.00085	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	07/26/13 09:50	08/02/13 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	07/26/13 09:50	08/02/13 00:12	1
Dibromofluoromethane	107		75 - 120	07/26/13 09:50	08/02/13 00:12	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/26/13 09:50	08/02/13 00:12	1
Toluene-d8 (Surr)	95		75 - 122	07/26/13 09:50	08/02/13 00:12	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	☼	08/06/13 07:15	08/14/13 19:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B05

Lab Sample ID: 500-59941-6

Date Collected: 07/26/13 09:50

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Fluorene	0.0092	J	0.040	0.0092	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.099	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Phenanthrene	0.15		0.040	0.017	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Anthracene	0.020	J	0.040	0.0096	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Fluoranthene	0.42		0.040	0.017	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Pyrene	0.40		0.040	0.015	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Benzo[a]anthracene	0.18		0.040	0.0085	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B05

Lab Sample ID: 500-59941-6

Date Collected: 07/26/13 09:50

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.27		0.040	0.0092	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Benzo[b]fluoranthene	0.41		0.040	0.0079	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Benzo[k]fluoranthene	0.15		0.040	0.0097	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Benzo[a]pyrene	0.22		0.040	0.0074	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Indeno[1,2,3-cd]pyrene	0.19		0.040	0.014	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Dibenz(a,h)anthracene	0.061		0.040	0.011	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Benzo[g,h,i]perylene	0.28		0.040	0.014	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	08/06/13 07:15	08/14/13 19:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		30 - 110				08/06/13 07:15	08/14/13 19:54	1
Phenol-d5	59		31 - 110				08/06/13 07:15	08/14/13 19:54	1
Nitrobenzene-d5	52		30 - 115				08/06/13 07:15	08/14/13 19:54	1
2-Fluorobiphenyl	60		30 - 119				08/06/13 07:15	08/14/13 19:54	1
2,4,6-Tribromophenol	75		35 - 137				08/06/13 07:15	08/14/13 19:54	1
Terphenyl-d14	80		36 - 134				08/06/13 07:15	08/14/13 19:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.51	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Arsenic	5.6		0.63	0.13	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Barium	72		0.63	0.067	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Beryllium	0.56		0.25	0.022	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Boron	3.6		3.1	0.13	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Cadmium	0.69		0.13	0.016	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Calcium	23000	B	13	3.4	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Chromium	18		0.63	0.073	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Cobalt	5.9	B	0.31	0.022	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Copper	18		0.63	0.056	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Iron	14000		13	5.2	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Lead	26		0.31	0.094	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Magnesium	14000	B	6.3	1.3	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Manganese	530	B	0.63	0.034	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Nickel	11	B	0.63	0.062	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Potassium	990	B	31	1.9	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Selenium	<0.63		0.63	0.22	mg/Kg	☼	07/30/13 09:37	08/17/13 19:39	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Sodium	770		63	8.4	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Thallium	<0.63		0.63	0.27	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Vanadium	27	B	0.31	0.047	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1
Zinc	65		1.3	0.25	mg/Kg	☼	07/30/13 09:37	08/13/13 05:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/13 12:00	08/21/13 05:03	1
Chromium	<0.025		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 05:03	1
Iron	0.22		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 05:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B05

Lab Sample ID: 500-59941-6

Date Collected: 07/26/13 09:50

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0057	J	0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 05:03	1
Manganese	6.4		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 05:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.98	B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 21:25	1
Beryllium	0.0054		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 21:25	1
Boron	0.84		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 21:25	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 21:25	1
Chromium	0.13		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:25	1
Cobalt	0.035		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 21:25	1
Iron	110		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 21:25	1
Lead	0.082		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 21:25	1
Manganese	0.77		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:25	1
Nickel	0.094		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:25	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 21:25	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 21:25	1
Zinc	0.74		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 21:25	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:34	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 11:36	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.021	0.0097	mg/Kg	☼	07/31/13 17:30	08/01/13 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.82		0.200	0.200	SU			08/09/13 12:05	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B06

Lab Sample ID: 500-59941-7

Date Collected: 07/26/13 09:55

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.028		0.0052	0.0022	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00084	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00086	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Vinyl acetate	<0.0052		0.0052	0.00081	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	07/26/13 09:55	08/02/13 00:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	07/26/13 09:55	08/02/13 00:35	1
Dibromofluoromethane	109		75 - 120	07/26/13 09:55	08/02/13 00:35	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/26/13 09:55	08/02/13 00:35	1
Toluene-d8 (Surr)	94		75 - 122	07/26/13 09:55	08/02/13 00:35	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	☼	08/06/13 07:15	08/14/13 20:15	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B06

Lab Sample ID: 500-59941-7

Date Collected: 07/26/13 09:55

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Hexachlorobenzene	<0.079		0.079	0.0078	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Phenanthrene	0.021	J	0.039	0.016	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Fluoranthene	0.061		0.039	0.016	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Pyrene	0.061		0.039	0.014	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Benzo[a]anthracene	0.030	J	0.039	0.0083	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B06

Lab Sample ID: 500-59941-7

Date Collected: 07/26/13 09:55

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.047		0.039	0.0089	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Benzo[b]fluoranthene	0.056		0.039	0.0077	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Benzo[k]fluoranthene	0.025 J		0.039	0.0094	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Benzo[a]pyrene	0.040		0.039	0.0072	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Indeno[1,2,3-cd]pyrene	0.037 J		0.039	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Dibenz(a,h)anthracene	0.016 J		0.039	0.011	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Benzo[g,h,i]perylene	0.048		0.039	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	08/06/13 07:15	08/14/13 20:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		30 - 110				08/06/13 07:15	08/14/13 20:15	1
Phenol-d5	62		31 - 110				08/06/13 07:15	08/14/13 20:15	1
Nitrobenzene-d5	49		30 - 115				08/06/13 07:15	08/14/13 20:15	1
2-Fluorobiphenyl	63		30 - 119				08/06/13 07:15	08/14/13 20:15	1
2,4,6-Tribromophenol	76		35 - 137				08/06/13 07:15	08/14/13 20:15	1
Terphenyl-d14	87		36 - 134				08/06/13 07:15	08/14/13 20:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Arsenic	5.1		0.59	0.12	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Barium	77		0.59	0.063	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Beryllium	0.62		0.24	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Boron	3.7		3.0	0.12	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Cadmium	0.61		0.12	0.015	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Calcium	15000 B		12	3.2	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Chromium	14		0.59	0.069	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Cobalt	6.8 B		0.30	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Copper	20		0.59	0.053	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Iron	15000		12	4.9	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Lead	31		0.30	0.088	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Magnesium	9300 B		5.9	1.2	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Manganese	270 B		0.59	0.032	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Nickel	18 B		0.59	0.058	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Potassium	1300 B		30	1.8	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Selenium	0.30 J		0.59	0.21	mg/Kg	☼	07/30/13 09:37	08/17/13 19:45	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Sodium	670		59	7.9	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Thallium	<0.59		0.59	0.25	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Vanadium	19 B		0.30	0.044	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1
Zinc	53		1.2	0.24	mg/Kg	☼	07/30/13 09:37	08/13/13 05:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.24		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 05:10	1
Lead	0.0057 J		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 05:10	1
Manganese	1.9		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 05:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B06

Lab Sample ID: 500-59941-7

Date Collected: 07/26/13 09:55

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55	B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 21:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 21:31	1
Boron	0.71		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 21:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 21:31	1
Chromium	0.053		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:31	1
Cobalt	0.014	J	0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 21:31	1
Iron	45		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 21:31	1
Lead	0.064		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 21:31	1
Manganese	0.24		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:31	1
Nickel	0.042		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:31	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 21:31	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 21:31	1
Zinc	0.44		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 21:31	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:35	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000034	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 11:38	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.020	0.0094	mg/Kg	✱	07/31/13 17:30	08/01/13 10:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.74		0.200	0.200	SU			08/09/13 12:07	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B07

Lab Sample ID: 500-59941-8

Date Collected: 07/26/13 10:00

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 86.3

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	☼	07/26/13 10:00	08/02/13 00:58	1
Benzene	<0.0059		0.0059	0.00080	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Bromodichloromethane	<0.0059		0.0059	0.0010	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Bromoform	<0.0059		0.0059	0.0013	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Bromomethane	<0.0059		0.0059	0.0018	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
2-Butanone (MEK)	<0.0059		0.0059	0.0021	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Carbon disulfide	<0.0059		0.0059	0.00088	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Carbon tetrachloride	<0.0059		0.0059	0.0011	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Chlorobenzene	<0.0059		0.0059	0.00059	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Chloroethane	<0.0059		0.0059	0.0016	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Chloroform	<0.0059		0.0059	0.00067	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Chloromethane	<0.0059		0.0059	0.0012	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
cis-1,2-Dichloroethene	<0.0059		0.0059	0.00083	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
cis-1,3-Dichloropropene	<0.0059		0.0059	0.00077	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Dibromochloromethane	<0.0059		0.0059	0.0010	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
1,1-Dichloroethane	<0.0059		0.0059	0.00093	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
1,2-Dichloroethane	<0.0059		0.0059	0.00087	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
1,1-Dichloroethene	<0.0059		0.0059	0.00095	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
1,2-Dichloropropane	<0.0059		0.0059	0.00089	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
1,3-Dichloropropene, Total	<0.0059		0.0059	0.00077	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Ethylbenzene	<0.0059		0.0059	0.0012	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
2-Hexanone	<0.0059		0.0059	0.0017	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Methylene Chloride	<0.0059		0.0059	0.0016	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
4-Methyl-2-pentanone (MIBK)	<0.0059		0.0059	0.0015	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Methyl tert-butyl ether	<0.0059		0.0059	0.00097	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Styrene	<0.0059		0.0059	0.00077	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
1,1,1,2-Tetrachloroethane	<0.0059		0.0059	0.0012	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Tetrachloroethene	<0.0059		0.0059	0.00090	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Toluene	<0.0059		0.0059	0.00082	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
trans-1,2-Dichloroethene	<0.0059		0.0059	0.00081	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
trans-1,3-Dichloropropene	<0.0059		0.0059	0.0011	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
1,1,1-Trichloroethane	<0.0059		0.0059	0.00088	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
1,1,2-Trichloroethane	<0.0059		0.0059	0.00080	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Trichloroethene	<0.0059		0.0059	0.00097	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Vinyl acetate	<0.0059		0.0059	0.00092	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Vinyl chloride	<0.0059		0.0059	0.0012	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1
Xylenes, Total	<0.012		0.012	0.00053	mg/Kg	☼	07/26/13 10:00	08/02/13 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	07/26/13 10:00	08/02/13 00:58	1
Dibromofluoromethane	105		75 - 120	07/26/13 10:00	08/02/13 00:58	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/26/13 10:00	08/02/13 00:58	1
Toluene-d8 (Surr)	95		75 - 122	07/26/13 10:00	08/02/13 00:58	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	☼	08/06/13 07:15	08/14/13 20:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B07

Lab Sample ID: 500-59941-8

Date Collected: 07/26/13 10:00

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Fluoranthene	<0.038		0.038	0.015	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B07

Lab Sample ID: 500-59941-8

Date Collected: 07/26/13 10:00

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0085	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Benzo[b]fluoranthene	<0.038		0.038	0.0073	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/06/13 07:15	08/14/13 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		30 - 110	08/06/13 07:15	08/14/13 20:36	1
Phenol-d5	67		31 - 110	08/06/13 07:15	08/14/13 20:36	1
Nitrobenzene-d5	56		30 - 115	08/06/13 07:15	08/14/13 20:36	1
2-Fluorobiphenyl	69		30 - 119	08/06/13 07:15	08/14/13 20:36	1
2,4,6-Tribromophenol	82		35 - 137	08/06/13 07:15	08/14/13 20:36	1
Terphenyl-d14	94		36 - 134	08/06/13 07:15	08/14/13 20:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Arsenic	4.4		0.56	0.11	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Barium	71		0.56	0.060	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Beryllium	0.66		0.22	0.020	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Boron	3.1		2.8	0.12	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Cadmium	0.37		0.11	0.014	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Calcium	5000	B	11	3.0	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Chromium	15		0.56	0.065	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Cobalt	8.4	B	0.28	0.020	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Copper	15		0.56	0.050	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Iron	17000		11	4.6	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Lead	14		0.28	0.084	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Magnesium	4200	B	5.6	1.2	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Manganese	300	B	0.56	0.031	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Nickel	18	B	0.56	0.055	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Potassium	1100	B	28	1.7	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Selenium	0.29	J	0.56	0.20	mg/Kg	☼	07/30/13 09:37	08/17/13 19:51	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Sodium	220		56	7.5	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Vanadium	21	B	0.28	0.042	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1
Zinc	40		1.1	0.23	mg/Kg	☼	07/30/13 09:37	08/13/13 05:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.23		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 05:16	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 05:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B07

Lab Sample ID: 500-59941-8

Date Collected: 07/26/13 10:00

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57	B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 21:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 21:37	1
Boron	0.77		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 21:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 21:37	1
Chromium	0.036		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:37	1
Cobalt	0.0062	J	0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 21:37	1
Iron	28		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 21:37	1
Lead	0.013		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 21:37	1
Manganese	0.12		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:37	1
Nickel	0.025		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:37	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 21:37	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 21:37	1
Zinc	0.39		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 21:37	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:36	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 11:40	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.0088	mg/Kg	✱	07/31/13 17:30	08/01/13 10:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.47		0.200	0.200	SU			08/09/13 12:09	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B03 Dup

Lab Sample ID: 500-59941-9

Date Collected: 07/26/13 00:00

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 74.7

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	☼	07/26/13 12:00	08/02/13 01:20	1
Benzene	<0.0061		0.0061	0.00083	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Bromodichloromethane	<0.0061		0.0061	0.0010	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Bromoform	<0.0061		0.0061	0.0014	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Bromomethane	<0.0061		0.0061	0.0018	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
2-Butanone (MEK)	<0.0061		0.0061	0.0022	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Carbon disulfide	<0.0061		0.0061	0.00090	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Carbon tetrachloride	<0.0061		0.0061	0.0011	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Chlorobenzene	<0.0061		0.0061	0.00061	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Chloroethane	<0.0061		0.0061	0.0016	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Chloroform	<0.0061		0.0061	0.00070	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Chloromethane	<0.0061		0.0061	0.0013	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
cis-1,2-Dichloroethene	<0.0061		0.0061	0.00086	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
cis-1,3-Dichloropropene	<0.0061		0.0061	0.00079	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Dibromochloromethane	<0.0061		0.0061	0.0011	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
1,1-Dichloroethane	<0.0061		0.0061	0.00096	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
1,2-Dichloroethane	<0.0061		0.0061	0.00090	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
1,1-Dichloroethene	<0.0061		0.0061	0.00098	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
1,2-Dichloropropane	<0.0061		0.0061	0.00092	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
1,3-Dichloropropene, Total	<0.0061		0.0061	0.00079	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Ethylbenzene	<0.0061		0.0061	0.0012	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
2-Hexanone	<0.0061		0.0061	0.0017	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Methylene Chloride	<0.0061		0.0061	0.0016	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
4-Methyl-2-pentanone (MIBK)	<0.0061		0.0061	0.0016	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Methyl tert-butyl ether	<0.0061		0.0061	0.0010	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Styrene	<0.0061		0.0061	0.00079	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
1,1,1,2-Tetrachloroethane	<0.0061		0.0061	0.0012	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Tetrachloroethene	<0.0061		0.0061	0.00092	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Toluene	<0.0061		0.0061	0.00085	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
trans-1,2-Dichloroethene	<0.0061		0.0061	0.00083	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
trans-1,3-Dichloropropene	<0.0061		0.0061	0.0011	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
1,1,1-Trichloroethane	<0.0061		0.0061	0.00090	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
1,1,2-Trichloroethane	<0.0061		0.0061	0.00083	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Trichloroethene	<0.0061		0.0061	0.0010	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Vinyl acetate	<0.0061		0.0061	0.00095	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Vinyl chloride	<0.0061		0.0061	0.0013	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1
Xylenes, Total	<0.012		0.012	0.00055	mg/Kg	☼	07/26/13 12:00	08/02/13 01:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	07/26/13 12:00	08/02/13 01:20	1
Dibromofluoromethane	106		75 - 120	07/26/13 12:00	08/02/13 01:20	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/26/13 12:00	08/02/13 01:20	1
Toluene-d8 (Surr)	96		75 - 122	07/26/13 12:00	08/02/13 01:20	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	☼	08/06/13 07:15	08/14/13 20:58	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B03 Dup

Lab Sample ID: 500-59941-9

Date Collected: 07/26/13 00:00

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
2-Nitrophenol	<0.41		0.41	0.066	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
3-Nitroaniline	<0.41		0.41	0.081	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Acenaphthylene	<0.041		0.041	0.0096	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
4-Nitrophenol	<0.84		0.84	0.23	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Fluorene	<0.041		0.041	0.0095	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
4-Nitroaniline	<0.41		0.41	0.086	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Phenanthrene	0.029	J	0.041	0.017	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Anthracene	<0.041		0.041	0.0098	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Fluoranthene	0.080		0.041	0.017	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Pyrene	0.082		0.041	0.015	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Benzo[a]anthracene	0.041		0.041	0.0088	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B03 Dup

Lab Sample ID: 500-59941-9

Date Collected: 07/26/13 00:00

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.059		0.041	0.0094	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Di-n-octyl phthalate	<0.21		0.21	0.085	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Benzo[b]fluoranthene	0.073		0.041	0.0081	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Benzo[k]fluoranthene	0.032 J		0.041	0.010	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Benzo[a]pyrene	0.049		0.041	0.0076	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Indeno[1,2,3-cd]pyrene	0.039 J		0.041	0.014	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Dibenz(a,h)anthracene	0.016 J		0.041	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
Benzo[g,h,i]perylene	0.045		0.041	0.014	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1
3 & 4 Methylphenol	<0.21		0.21	0.079	mg/Kg	☼	08/06/13 07:15	08/14/13 20:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		30 - 110	08/06/13 07:15	08/14/13 20:58	1
Phenol-d5	69		31 - 110	08/06/13 07:15	08/14/13 20:58	1
Nitrobenzene-d5	49		30 - 115	08/06/13 07:15	08/14/13 20:58	1
2-Fluorobiphenyl	66		30 - 119	08/06/13 07:15	08/14/13 20:58	1
2,4,6-Tribromophenol	84		35 - 137	08/06/13 07:15	08/14/13 20:58	1
Terphenyl-d14	103		36 - 134	08/06/13 07:15	08/14/13 20:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.53	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Arsenic	6.0		0.66	0.13	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Barium	110		0.66	0.071	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Beryllium	0.61		0.27	0.023	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Boron	5.3		3.3	0.14	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Cadmium	0.62		0.13	0.017	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Calcium	5900 B		13	3.6	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Chromium	13		0.66	0.077	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Cobalt	6.1 B		0.33	0.024	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Copper	20		0.66	0.059	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Iron	14000		13	5.5	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Lead	26		0.33	0.099	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Magnesium	2700 B		6.6	1.4	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Manganese	490 B		0.66	0.036	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Nickel	14 B		0.66	0.065	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Potassium	1900 B		33	2.0	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Selenium	0.74		0.66	0.24	mg/Kg	☼	07/30/13 09:37	08/17/13 20:35	1
Silver	<0.33		0.33	0.024	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Sodium	970		66	8.9	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Thallium	<0.66		0.66	0.28	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Vanadium	19 B		0.33	0.049	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1
Zinc	71		1.3	0.27	mg/Kg	☼	07/30/13 09:37	08/13/13 06:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.61		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 05:22	1
Lead	0.0057 J		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 05:22	1
Manganese	0.12		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 05:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

Client Sample ID: 846D-134-B03 Dup

Lab Sample ID: 500-59941-9

Date Collected: 07/26/13 00:00

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.66	B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 21:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 21:44	1
Boron	0.68		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 21:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 21:44	1
Chromium	0.057		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:44	1
Cobalt	0.0096	J	0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 21:44	1
Iron	43		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 21:44	1
Lead	0.037		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 21:44	1
Manganese	0.25		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:44	1
Nickel	0.034		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:44	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 21:44	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 21:44	1
Zinc	0.53		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 21:44	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:37	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000073	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 11:42	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.020	0.0095	mg/Kg	☆	07/31/13 17:30	08/01/13 10:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.10		0.200	0.200	SU			08/09/13 12:12	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-2

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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: <u>USEP/17 Willcos LLC</u>	COC No.: _____ of _____
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@testamerica.com	Project No.: <u>IDOT 2013-022</u> TAT: <input checked="" type="checkbox"/> 4.5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other _____	Lab Job No.: <u>500-5994H</u> Sample Temp: _____
Special Instructions:		Matrix Key:	

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

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		
2	846D-134-601	7/26/13	9:25A	S	X	X					X	X	X	X			0-4'
3	846D-134-602		9:30A	S	X	X											0-4'
4	846D-134-603		9:40A	S	X	X											0-1'
5	846D-134-604		9:45A	S	X	X											0-1'
6	846D-134-605		9:50A	S	X	X											0-1'
7	846D-134-606		9:55A	S	X	X											0-1'
8	846D-134-607		10:00A	S	X	X					X	X	X	X			0-1'
9	846D-134-603 D ₉	7-26-13															added by TA

Relinquished by: <u>Daniel J. Mackinson (AEI)</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/26/13</u>	Date/Time: <u>07/26/13</u>
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/26/13</u>	Date/Time: <u>7/26/13</u>
Relinquished by: _____	Received by: _____	Date/Time: _____	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: 500-59862-5
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/19/2013 5:42:42 PM

Richard Wright, Project Manager II
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 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-5

Client Sample ID: 846D-134-B08

Lab Sample ID: 500-59862-14

Date Collected: 07/25/13 10:20

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 95.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.020		0.0052	0.0022	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00086	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Vinyl acetate	<0.0052		0.0052	0.00081	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	07/25/13 10:20	08/02/13 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	07/25/13 10:20	08/02/13 21:07	1
Dibromofluoromethane	103		75 - 120	07/25/13 10:20	08/02/13 21:07	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	07/25/13 10:20	08/02/13 21:07	1
Toluene-d8 (Surr)	98		75 - 122	07/25/13 10:20	08/02/13 21:07	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	☼	08/04/13 19:29	08/09/13 15:58	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-5

Client Sample ID: 846D-134-B08

Lab Sample ID: 500-59862-14

Date Collected: 07/25/13 10:20

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 95.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Nitrobenzene	<0.034	*	0.034	0.011	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Bis(2-chloroethoxy)methane	<0.17	*	0.17	0.038	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
1,2,4-Trichlorobenzene	<0.17	*	0.17	0.038	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Naphthalene	<0.034		0.034	0.0066	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
2,4-Dichlorophenol	<0.34	*	0.34	0.10	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
4-Chloroaniline	<0.69		0.69	0.10	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
2,4,5-Trichlorophenol	<0.34		0.34	0.097	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Hexachlorocyclopentadiene	<0.69		0.69	0.16	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
2-Nitroaniline	<0.17		0.17	0.061	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
2-Nitrophenol	<0.34	*	0.34	0.053	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
3-Nitroaniline	<0.34		0.34	0.066	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
2,4-Dinitrophenol	<0.69		0.69	0.17	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Acenaphthylene	<0.034		0.034	0.0078	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
4-Nitrophenol	<0.69		0.69	0.18	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Fluorene	<0.034		0.034	0.0077	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
4-Nitroaniline	<0.34		0.34	0.070	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Hexachlorobenzene	<0.069		0.069	0.0067	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Diethyl phthalate	<0.17	*	0.17	0.057	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
4-Chlorophenyl phenyl ether	<0.17	*	0.17	0.054	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Pentachlorophenol	<0.69		0.69	0.17	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.082	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Anthracene	<0.034		0.034	0.0080	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Fluoranthene	0.014	J	0.034	0.014	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Pyrene	0.028	J	0.034	0.012	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Benzo[a]anthracene	0.018	J	0.034	0.0071	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-5

Client Sample ID: 846D-134-B08

Lab Sample ID: 500-59862-14

Date Collected: 07/25/13 10:20

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 95.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.027	J	0.034	0.0077	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Di-n-octyl phthalate	<0.17		0.17	0.069	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Benzo[b]fluoranthene	0.035		0.034	0.0066	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Benzo[k]fluoranthene	0.012	J	0.034	0.0081	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Benzo[a]pyrene	0.027	J	0.034	0.0062	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Indeno[1,2,3-cd]pyrene	0.021	J	0.034	0.011	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Dibenz(a,h)anthracene	0.012	J	0.034	0.0095	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Benzo[g,h,i]perylene	0.025	J	0.034	0.011	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
3 & 4 Methylphenol	<0.17		0.17	0.064	mg/Kg	☼	08/04/13 19:29	08/09/13 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		30 - 110				08/04/13 19:29	08/09/13 15:58	1
Phenol-d5	62		31 - 110				08/04/13 19:29	08/09/13 15:58	1
Nitrobenzene-d5	58		30 - 115				08/04/13 19:29	08/09/13 15:58	1
2-Fluorobiphenyl	67		30 - 119				08/04/13 19:29	08/09/13 15:58	1
2,4,6-Tribromophenol	64		35 - 137				08/04/13 19:29	08/09/13 15:58	1
Terphenyl-d14	97		36 - 134				08/04/13 19:29	08/09/13 15:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.70	J	1.0	0.40	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Arsenic	1.4		0.50	0.10	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Barium	4.1		0.50	0.054	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Beryllium	0.13	J	0.20	0.018	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Boron	9.9	B	2.5	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Cadmium	0.090	J	0.10	0.013	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Calcium	170000	B	100	27	mg/Kg	☼	07/28/13 17:00	08/13/13 07:31	10
Chromium	2.1		0.50	0.058	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Cobalt	1.9		0.25	0.018	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Copper	2.9	B	0.50	0.045	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Iron	3400	B	10	4.1	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Lead	1.2		0.25	0.075	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Magnesium	100000	B	50	10	mg/Kg	☼	07/28/13 17:00	08/13/13 07:31	10
Manganese	260	B	0.50	0.027	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Nickel	4.0		0.50	0.049	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Potassium	590	B	25	1.5	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Selenium	<0.50		0.50	0.18	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Silver	<0.25		0.25	0.018	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Sodium	270		50	6.7	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Thallium	<0.50		0.50	0.21	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Vanadium	2.6		0.25	0.037	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1
Zinc	3.9	B	1.0	0.20	mg/Kg	☼	07/28/13 17:00	08/07/13 21:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.50		0.50	0.010	mg/L		07/30/13 10:30	08/07/13 18:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 18:00	1
Boron	0.92		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 18:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-5

Client Sample ID: 846D-134-B08

Lab Sample ID: 500-59862-14

Date Collected: 07/25/13 10:20

Matrix: Solid

Date Received: 07/26/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 18:00	1
Chromium	<0.025		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:00	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 18:00	1
Iron	0.26		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 18:00	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 18:00	1
Manganese	0.011 J		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:00	1
Nickel	<0.025		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:00	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 18:00	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 18:00	1
Zinc	0.39		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 18:00	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 15:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 15:54	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 11:57	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0079	mg/Kg	☆	07/29/13 13:00	07/30/13 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.48		0.200	0.200	SU			08/08/13 17:19	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-5

Client Sample ID: 846D-134-B09

Lab Sample ID: 500-59862-15

Date Collected: 07/25/13 10:35

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0059		0.0051	0.0022	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Benzene	<0.0051		0.0051	0.00069	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Carbon tetrachloride	<0.0051		0.0051	0.00092	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Chlorobenzene	<0.0051		0.0051	0.00051	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Chloroform	<0.0051		0.0051	0.00058	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00066	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Dibromochloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00082	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00066	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Styrene	<0.0051		0.0051	0.00066	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Tetrachloroethene	<0.0051		0.0051	0.00077	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	07/25/13 10:35	08/05/13 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	07/25/13 10:35	08/05/13 13:51	1
Dibromofluoromethane	104		75 - 120	07/25/13 10:35	08/05/13 13:51	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/25/13 10:35	08/05/13 13:51	1
Toluene-d8 (Surr)	96		75 - 122	07/25/13 10:35	08/05/13 13:51	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	☼	08/04/13 19:29	08/08/13 19:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-5

Client Sample ID: 846D-134-B09

Lab Sample ID: 500-59862-15

Date Collected: 07/25/13 10:35

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Nitrobenzene	<0.038	*	0.038	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Bis(2-chloroethoxy)methane	<0.19	*	0.19	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
1,2,4-Trichlorobenzene	<0.19	*	0.19	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
2,4-Dichlorophenol	<0.38	*	0.38	0.12	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
2-Nitrophenol	<0.38	*	0.38	0.060	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Diethyl phthalate	<0.19	*	0.19	0.064	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
4-Chlorophenyl phenyl ether	<0.19	*	0.19	0.061	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-5

Client Sample ID: 846D-134-B09

Lab Sample ID: 500-59862-15

Date Collected: 07/25/13 10:35

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Benzo[b]fluoranthene	0.015	J	0.038	0.0075	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Benzo[a]pyrene	0.011	J	0.038	0.0070	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Benzo[g,h,i]perylene	0.014	J	0.038	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/04/13 19:29	08/08/13 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		30 - 110				08/04/13 19:29	08/08/13 19:37	1
Phenol-d5	66		31 - 110				08/04/13 19:29	08/08/13 19:37	1
Nitrobenzene-d5	66		30 - 115				08/04/13 19:29	08/08/13 19:37	1
2-Fluorobiphenyl	76		30 - 119				08/04/13 19:29	08/08/13 19:37	1
2,4,6-Tribromophenol	65		35 - 137				08/04/13 19:29	08/08/13 19:37	1
Terphenyl-d14	90		36 - 134				08/04/13 19:29	08/08/13 19:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Arsenic	9.4		0.59	0.12	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Barium	59		0.59	0.063	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Beryllium	0.55		0.24	0.021	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Boron	3.6	B	2.9	0.12	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Cadmium	0.21		0.12	0.015	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Calcium	23000	B	12	3.2	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Chromium	15		0.59	0.068	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Cobalt	14		0.29	0.021	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Copper	23	B	0.59	0.052	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Iron	20000	B	12	4.8	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Lead	18		0.29	0.088	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Magnesium	14000	B	5.9	1.2	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Manganese	330	B	0.59	0.032	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Nickel	31		0.59	0.058	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Potassium	1200	B	29	1.8	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Sodium	84		59	7.9	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Thallium	0.33	J	0.59	0.25	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Vanadium	15		0.29	0.043	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1
Zinc	71	B	1.2	0.24	mg/Kg	☼	07/28/13 17:00	08/07/13 21:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 13:46	1
Lead	0.0085		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 13:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-5

Client Sample ID: 846D-134-B09

Lab Sample ID: 500-59862-15

Date Collected: 07/25/13 10:35

Matrix: Solid

Date Received: 07/26/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.54		0.50	0.010	mg/L		07/30/13 10:30	08/07/13 18:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 18:04	1
Boron	0.83		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 18:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 18:04	1
Chromium	0.023	J	0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:04	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 18:04	1
Iron	21		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 18:04	1
Lead	0.014		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 18:04	1
Manganese	0.10		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:04	1
Nickel	0.019	J	0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:04	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 18:04	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 18:04	1
Zinc	0.40		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 18:04	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 15:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 15:55	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 11:59	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0084	mg/Kg	☆	07/30/13 17:45	07/31/13 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.21		0.200	0.200	SU			08/08/13 17:26	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-5

Qualifiers

GC/MS Semi VOA

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

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.

Glossary

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



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: US6/IL7 WILL/COOK CO Project No.: IDOT 2013-022 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.: _____ of _____ Lab Job No.: 500-59862 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.		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other														
ANALYSES																
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
	846D-134-B01	7/2		S	X	X					X	X	X	X		
	846D-134-B02															
	846D-134-B03															
	846D-134-B03 DUP															
	846D-134-B04															
	846D-134-B05															
	846D-134-B06															
	846D-134-B07															
14	846D-134-B08	7/25/13	10:20A													0-4'
15	846D-134-B09	7/25/13	10:35A	S	X	X					X	X	X	X		0-4'
Relinquished by: Daniel J. MacKinnon (AEI)					Date/Time	Received by: [Signature]					Date/Time	Received by: [Signature]				
					Date/Time	Received by: [Signature]					Date/Time	Received by: [Signature]				



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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

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

10971 to 11181 W 159th St.

City: Orland Park State: IL Zip Code: 60462

County: Cook Township: Orland

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

Latitude: 41.59978 Longitude: -87.88884
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 351 (U.S. 6/IL 7)

Latitude: 41.59978 Longitude: -87.88884

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 846D-135-B01 THRU -B04 WERE SAMPLED ADJACENT TO SITE No. 846D-135. SEE FIGURES 6 & 12, AND TABLE 3o OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59862-6 & 500-59941-3

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

I, Steven Gobelman (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: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

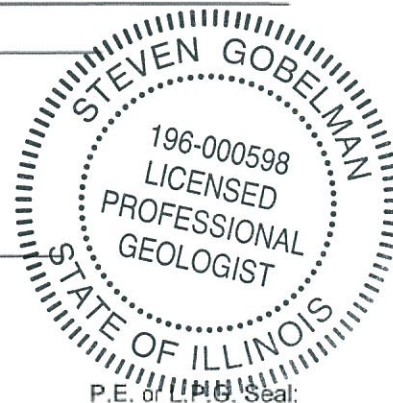
City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.
Printed Name:

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

9/20/14
Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-135
Farmstead

Sample ID	846D-135-B01	846D-135-B01 DUP	846D-135-B02	846D-135-B03	846D-135-B04													
Sample Depth (ft)	0-1	0-1	0-1	0-1.5	0-1.5													
Sample Date	7/26/2013	7/26/2013	7/26/2013	7/26/2013	7/25/2013													
PID	0	0	0	0	0													
Sample pH	8.13	7.38	8.32	8.05	8.09													
Matrix	Soil	Soil	Soil	Soil	Soil													
Semivolatile Organic Compounds (mg/kg)																		
Benzo(a)pyrene	0.17	1.2	0.11	1.2	0.61	1.2	0.076		ND		0.09	0.09	0.98	1.3	2.1	2.1	0.42	NA
Benzo(b)fluoranthene	0.21		0.19		0.96	1.2,3	0.12		J 0.0091		0.9	0.9	0.9	1.5	2.1	2.1	0.42	NA
Dibenzo(a,h)anthracene	0.04		J 0.031		J 0.16	1,2,3	0.042		ND		0.09	0.09	0.15	0.2				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: 500-59941-3
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/21/2013 1:51:50 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

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www.testamericainc.com

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

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

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

1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Client Sample ID: 846D-135-B01

Lab Sample ID: 500-59941-10

Date Collected: 07/26/13 09:00

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 94.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0022	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Chlorobenzene	<0.0052		0.0052	0.00052	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Chloroform	<0.0052		0.0052	0.00059	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
1,2-Dichloropropane	<0.0052		0.0052	0.00078	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00085	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Toluene	<0.0052		0.0052	0.00072	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00070	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Vinyl acetate	<0.0052		0.0052	0.00081	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	07/26/13 09:00	08/02/13 01:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	07/26/13 09:00	08/02/13 01:43	1
Dibromofluoromethane	107		75 - 120	07/26/13 09:00	08/02/13 01:43	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/26/13 09:00	08/02/13 01:43	1
Toluene-d8 (Surr)	96		75 - 122	07/26/13 09:00	08/02/13 01:43	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	☼	08/06/13 07:15	08/19/13 15:26	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.049	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Client Sample ID: 846D-135-B01

Lab Sample ID: 500-59941-10

Date Collected: 07/26/13 09:00

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 94.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Hexachloroethane	<0.17		0.17	0.035	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
2-Chlorophenol	<0.17		0.17	0.047	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Hexachlorobutadiene	<0.17		0.17	0.043	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
2,4,5-Trichlorophenol	<0.33		0.33	0.095	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Hexachlorocyclopentadiene	<0.67		0.67	0.15	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
2,6-Dinitrotoluene	<0.17		0.17	0.039	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
3-Nitroaniline	<0.33		0.33	0.064	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Dimethyl phthalate	<0.17		0.17	0.041	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
2,4-Dinitrophenol	<0.67		0.67	0.17	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Acenaphthylene	0.015	J	0.033	0.0076	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Acenaphthene	<0.033		0.033	0.0099	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Fluorene	<0.033		0.033	0.0075	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
4-Nitroaniline	<0.33		0.33	0.068	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Hexachlorobenzene	<0.067		0.067	0.0065	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Diethyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.052	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.080	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Phenanthrene	0.069		0.033	0.014	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Anthracene	0.020	J	0.033	0.0078	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Fluoranthene	0.22		0.033	0.014	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Pyrene	0.19		0.033	0.012	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Benzo[a]anthracene	0.11		0.033	0.0070	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Client Sample ID: 846D-135-B01

Lab Sample ID: 500-59941-10

Date Collected: 07/26/13 09:00

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 94.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.17		0.033	0.0075	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Di-n-octyl phthalate	<0.17		0.17	0.067	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Benzo[b]fluoranthene	0.21		0.033	0.0064	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Benzo[k]fluoranthene	0.094		0.033	0.0079	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Benzo[a]pyrene	0.17		0.033	0.0060	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Indeno[1,2,3-cd]pyrene	0.10		0.033	0.011	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Dibenz(a,h)anthracene	0.040		0.033	0.0093	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
Benzo[g,h,i]perylene	0.14		0.033	0.011	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	08/06/13 07:15	08/19/13 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		30 - 110	08/06/13 07:15	08/19/13 15:26	1
Phenol-d5	60		31 - 110	08/06/13 07:15	08/19/13 15:26	1
Nitrobenzene-d5	56		30 - 115	08/06/13 07:15	08/19/13 15:26	1
2-Fluorobiphenyl	61		30 - 119	08/06/13 07:15	08/19/13 15:26	1
2,4,6-Tribromophenol	54		35 - 137	08/06/13 07:15	08/19/13 15:26	1
Terphenyl-d14	57		36 - 134	08/06/13 07:15	08/19/13 15:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Arsenic	4.3		0.53	0.11	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Barium	48		0.53	0.057	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Beryllium	0.43		0.21	0.019	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Boron	8.9		2.6	0.11	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Cadmium	0.93		0.11	0.013	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Calcium	96000	B	110	29	mg/Kg	☼	07/30/13 09:37	08/17/13 20:48	10
Chromium	8.2		0.53	0.061	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Cobalt	3.7	B	0.26	0.019	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Copper	11		0.53	0.047	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Iron	8800		11	4.3	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Lead	21		0.26	0.079	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Magnesium	43000	B	5.3	1.1	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Manganese	270	B	0.53	0.029	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Nickel	9.4	B	0.53	0.052	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Potassium	1100	B	26	1.6	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	07/30/13 09:37	08/17/13 20:42	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Sodium	180		53	7.1	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Thallium	<0.53		0.53	0.22	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Vanadium	12	B	0.26	0.039	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1
Zinc	35		1.1	0.21	mg/Kg	☼	07/30/13 09:37	08/13/13 06:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.26		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 05:28	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 05:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Client Sample ID: 846D-135-B01

Lab Sample ID: 500-59941-10

Date Collected: 07/26/13 09:00

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52	B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 21:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 21:50	1
Boron	0.74		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 21:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 21:50	1
Chromium	0.022	J	0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:50	1
Cobalt	0.0053	J	0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 21:50	1
Iron	16		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 21:50	1
Lead	0.023		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 21:50	1
Manganese	0.14		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:50	1
Nickel	0.016	J	0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:50	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 21:50	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 21:50	1
Zinc	0.39		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 21:50	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:38	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 11:44	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0083	mg/Kg	☆	07/31/13 17:30	08/01/13 10:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13		0.200	0.200	SU			08/09/13 12:14	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Client Sample ID: 846D-135-B02

Lab Sample ID: 500-59941-11

Date Collected: 07/26/13 09:20

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 90.8

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	☼	07/26/13 09:20	08/02/13 02:06	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	07/26/13 09:20	08/02/13 02:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	07/26/13 09:20	08/02/13 02:06	1
Dibromofluoromethane	107		75 - 120	07/26/13 09:20	08/02/13 02:06	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/26/13 09:20	08/02/13 02:06	1
Toluene-d8 (Surr)	92		75 - 122	07/26/13 09:20	08/02/13 02:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.87		0.87	0.27	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Bis(2-chloroethyl)ether	<0.87		0.87	0.26	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
1,3-Dichlorobenzene	<0.87		0.87	0.18	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
1,4-Dichlorobenzene	<0.87		0.87	0.18	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Client Sample ID: 846D-135-B02

Lab Sample ID: 500-59941-11

Date Collected: 07/26/13 09:20

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.87		0.87	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
2-Methylphenol	<0.87		0.87	0.23	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
2,2'-oxybis[1-chloropropane]	<0.87		0.87	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
N-Nitrosodi-n-propylamine	<0.87		0.87	0.22	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Hexachloroethane	<0.87		0.87	0.18	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
2-Chlorophenol	<0.87		0.87	0.25	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Nitrobenzene	<0.17		0.17	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Bis(2-chloroethoxy)methane	<0.87		0.87	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
1,2,4-Trichlorobenzene	<0.87		0.87	0.20	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Isophorone	<0.87		0.87	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
2,4-Dimethylphenol	<1.7		1.7	0.54	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Hexachlorobutadiene	<0.87		0.87	0.23	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Naphthalene	<0.17		0.17	0.033	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
2,4-Dichlorophenol	<1.7		1.7	0.53	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
4-Chloroaniline	<3.5		3.5	0.53	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
2,4,6-Trichlorophenol	<1.7		1.7	0.22	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
2,4,5-Trichlorophenol	<1.7		1.7	0.50	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Hexachlorocyclopentadiene	<3.5		3.5	0.80	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
2-Methylnaphthalene	<0.87		0.87	0.23	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
2-Nitroaniline	<0.87		0.87	0.31	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
2-Chloronaphthalene	<0.87		0.87	0.20	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
4-Chloro-3-methylphenol	<1.7		1.7	0.83	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
2,6-Dinitrotoluene	<0.87		0.87	0.21	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
2-Nitrophenol	<1.7		1.7	0.27	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
3-Nitroaniline	<1.7		1.7	0.33	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Dimethyl phthalate	<0.87		0.87	0.22	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
2,4-Dinitrophenol	<3.5		3.5	0.89	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Acenaphthylene	<0.17		0.17	0.040	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
2,4-Dinitrotoluene	<0.87		0.87	0.27	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Acenaphthene	<0.17		0.17	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Dibenzofuran	<0.87		0.87	0.21	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
4-Nitrophenol	<3.5		3.5	0.94	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Fluorene	<0.17		0.17	0.039	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
4-Nitroaniline	<1.7		1.7	0.36	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
4-Bromophenyl phenyl ether	<0.87		0.87	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Hexachlorobenzene	<0.35		0.35	0.034	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Diethyl phthalate	<0.87		0.87	0.29	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
4-Chlorophenyl phenyl ether	<0.87		0.87	0.27	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Pentachlorophenol	<3.5		3.5	0.88	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
N-Nitrosodiphenylamine	<0.87		0.87	0.23	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
4,6-Dinitro-2-methylphenol	<1.7		1.7	0.42	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Phenanthrene	0.57		0.17	0.073	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Anthracene	0.088 J		0.17	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Carbazole	<0.87		0.87	0.24	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Di-n-butyl phthalate	<0.87		0.87	0.22	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Fluoranthene	1.4		0.17	0.071	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Pyrene	1.4		0.17	0.063	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Butyl benzyl phthalate	<0.87		0.87	0.22	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Benzo[a]anthracene	0.59		0.17	0.036	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Client Sample ID: 846D-135-B02

Lab Sample ID: 500-59941-11

Date Collected: 07/26/13 09:20

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.72		0.17	0.039	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
3,3'-Dichlorobenzidine	<0.87		0.87	0.14	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Bis(2-ethylhexyl) phthalate	<0.87		0.87	0.23	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Di-n-octyl phthalate	<0.87		0.87	0.35	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Benzo[b]fluoranthene	0.96		0.17	0.034	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Benzo[k]fluoranthene	0.39		0.17	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Benzo[a]pyrene	0.61		0.17	0.032	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Indeno[1,2,3-cd]pyrene	0.52		0.17	0.059	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Dibenz(a,h)anthracene	0.16	J	0.17	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Benzo[g,h,i]perylene	0.68		0.17	0.059	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
3 & 4 Methylphenol	<0.87		0.87	0.33	mg/Kg	☼	08/06/13 07:15	08/14/13 21:40	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		30 - 110				08/06/13 07:15	08/14/13 21:40	5
Phenol-d5	74		31 - 110				08/06/13 07:15	08/14/13 21:40	5
Nitrobenzene-d5	68		30 - 115				08/06/13 07:15	08/14/13 21:40	5
2-Fluorobiphenyl	87		30 - 119				08/06/13 07:15	08/14/13 21:40	5
2,4,6-Tribromophenol	114		35 - 137				08/06/13 07:15	08/14/13 21:40	5
Terphenyl-d14	114		36 - 134				08/06/13 07:15	08/14/13 21:40	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.1	0.44	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Arsenic	3.7		0.55	0.11	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Barium	120		0.55	0.058	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Beryllium	0.47		0.22	0.019	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Boron	12		2.7	0.11	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Cadmium	1.1		0.11	0.014	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Calcium	110000	B	110	30	mg/Kg	☼	07/30/13 09:37	08/17/13 21:00	10
Chromium	41		0.55	0.063	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Cobalt	3.7	B	0.27	0.019	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Copper	32		0.55	0.048	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Iron	12000		11	4.5	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Lead	130		0.27	0.081	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Magnesium	49000	B	5.5	1.1	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Manganese	320	B	0.55	0.030	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Nickel	9.8	B	0.55	0.054	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Potassium	830	B	27	1.6	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	07/30/13 09:37	08/17/13 20:54	1
Silver	0.028	J B	0.27	0.020	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Sodium	1200		55	7.3	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Vanadium	14	B	0.27	0.040	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1
Zinc	110		1.1	0.22	mg/Kg	☼	07/30/13 09:37	08/13/13 06:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 05:49	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 05:49	1
Manganese	0.78		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 05:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Client Sample ID: 846D-135-B02

Lab Sample ID: 500-59941-11

Date Collected: 07/26/13 09:20

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55	B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 21:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 21:56	1
Boron	0.71		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 21:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 21:56	1
Chromium	0.053		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:56	1
Cobalt	0.011	J	0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 21:56	1
Iron	31		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 21:56	1
Lead	0.089		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 21:56	1
Manganese	0.27		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:56	1
Nickel	0.033		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 21:56	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 21:56	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 21:56	1
Zinc	0.55		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 21:56	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:39	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 11:46	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0085	mg/Kg	☆	07/31/13 17:30	08/01/13 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU			08/09/13 12:16	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Client Sample ID: 846D-135-B03

Lab Sample ID: 500-59941-12

Date Collected: 07/26/13 09:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
2-Butanone (MEK)	<0.0048		0.0048	0.0018	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Chloroform	<0.0048		0.0048	0.00056	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Ethylbenzene	<0.0048		0.0048	0.00098	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Toluene	<0.0048		0.0048	0.00068	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00087	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	07/26/13 09:30	08/02/13 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/26/13 09:30	08/02/13 02:29	1
Dibromofluoromethane	102		75 - 120	07/26/13 09:30	08/02/13 02:29	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/26/13 09:30	08/02/13 02:29	1
Toluene-d8 (Surr)	95		75 - 122	07/26/13 09:30	08/02/13 02:29	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	☼	08/06/13 07:15	08/16/13 11:01	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Client Sample ID: 846D-135-B03

Lab Sample ID: 500-59941-12

Date Collected: 07/26/13 09:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.052	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Phenanthrene	0.043		0.040	0.017	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Fluoranthene	0.091		0.040	0.017	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Pyrene	0.11		0.040	0.015	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Benzo[a]anthracene	0.070		0.040	0.0085	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Client Sample ID: 846D-135-B03

Lab Sample ID: 500-59941-12

Date Collected: 07/26/13 09:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.094		0.040	0.0092	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Benzo[b]fluoranthene	0.12		0.040	0.0079	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Benzo[k]fluoranthene	0.050		0.040	0.0097	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Benzo[a]pyrene	0.076		0.040	0.0074	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Indeno[1,2,3-cd]pyrene	0.058		0.040	0.014	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Dibenz(a,h)anthracene	0.042		0.040	0.011	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Benzo[g,h,i]perylene	0.073		0.040	0.014	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	08/06/13 07:15	08/16/13 11:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	37		30 - 110				08/06/13 07:15	08/16/13 11:01	1
Phenol-d5	46		31 - 110				08/06/13 07:15	08/16/13 11:01	1
Nitrobenzene-d5	49		30 - 115				08/06/13 07:15	08/16/13 11:01	1
2-Fluorobiphenyl	60		30 - 119				08/06/13 07:15	08/16/13 11:01	1
2,4,6-Tribromophenol	68		35 - 137				08/06/13 07:15	08/16/13 11:01	1
Terphenyl-d14	89		36 - 134				08/06/13 07:15	08/16/13 11:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Arsenic	6.1		0.59	0.12	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Barium	80		0.59	0.063	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Beryllium	0.64		0.24	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Boron	3.5		3.0	0.12	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Cadmium	0.76		0.12	0.015	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Calcium	12000	B	12	3.2	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Chromium	19		0.59	0.068	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Cobalt	5.8	B	0.30	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Copper	23		0.59	0.052	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Iron	17000		12	4.9	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Lead	95		0.30	0.088	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Magnesium	7600	B	5.9	1.2	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Manganese	300	B	0.59	0.032	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Nickel	19	B	0.59	0.058	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Potassium	1300	B	30	1.8	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	07/30/13 09:37	08/17/13 21:06	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Sodium	1300		59	7.9	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Thallium	0.32	J	0.59	0.25	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Vanadium	19	B	0.30	0.044	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1
Zinc	95		1.2	0.24	mg/Kg	☼	07/30/13 09:37	08/13/13 06:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/13 12:00	08/21/13 05:55	1
Chromium	<0.025		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 05:55	1
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 05:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Client Sample ID: 846D-135-B03

Lab Sample ID: 500-59941-12

Date Collected: 07/26/13 09:30

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0079		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 05:55	1
Manganese	0.41		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 05:55	1
Nickel	<0.025		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 05:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.87	B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 22:02	1
Beryllium	0.0054		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 22:02	1
Boron	0.84		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 22:02	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 22:02	1
Chromium	0.13		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:02	1
Cobalt	0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 22:02	1
Iron	100		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 22:02	1
Lead	0.27		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 22:02	1
Manganese	0.51		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:02	1
Nickel	0.10		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:02	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 22:02	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 22:02	1
Zinc	0.91		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 22:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/17/13 12:00	08/19/13 12:49	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:39	1
Thallium	0.0026		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:39	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 11:48	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.019	0.0091	mg/Kg	☼	07/31/13 17:30	08/01/13 10:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.05		0.200	0.200	SU			08/09/13 12:18	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Client Sample ID: 846D-135-B01 Dup

Lab Sample ID: 500-59941-13

Date Collected: 07/26/13 09:05

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0060		0.0060	0.0026	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Benzene	<0.0060		0.0060	0.00082	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Bromodichloromethane	<0.0060		0.0060	0.0010	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Bromoform	<0.0060		0.0060	0.0014	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Bromomethane	<0.0060		0.0060	0.0018	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
2-Butanone (MEK)	<0.0060		0.0060	0.0022	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Carbon disulfide	<0.0060		0.0060	0.00089	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Carbon tetrachloride	<0.0060		0.0060	0.0011	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Chlorobenzene	<0.0060		0.0060	0.00061	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Chloroethane	<0.0060		0.0060	0.0016	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Chloroform	<0.0060		0.0060	0.00069	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Chloromethane	<0.0060		0.0060	0.0013	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
cis-1,2-Dichloroethene	<0.0060		0.0060	0.00085	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
cis-1,3-Dichloropropene	<0.0060		0.0060	0.00079	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Dibromochloromethane	<0.0060		0.0060	0.0010	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
1,1-Dichloroethane	<0.0060		0.0060	0.00095	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
1,2-Dichloroethane	<0.0060		0.0060	0.00089	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
1,1-Dichloroethene	<0.0060		0.0060	0.00097	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
1,2-Dichloropropane	<0.0060		0.0060	0.00091	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
1,3-Dichloropropene, Total	<0.0060		0.0060	0.00079	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Ethylbenzene	<0.0060		0.0060	0.0012	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
2-Hexanone	<0.0060		0.0060	0.0017	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Methylene Chloride	<0.0060		0.0060	0.0016	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
4-Methyl-2-pentanone (MIBK)	<0.0060		0.0060	0.0016	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Methyl tert-butyl ether	<0.0060		0.0060	0.00099	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Styrene	<0.0060		0.0060	0.00079	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
1,1,1,2-Tetrachloroethane	<0.0060		0.0060	0.0012	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Tetrachloroethene	<0.0060		0.0060	0.00092	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Toluene	<0.0060		0.0060	0.00084	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
trans-1,2-Dichloroethene	<0.0060		0.0060	0.00082	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
trans-1,3-Dichloropropene	<0.0060		0.0060	0.0011	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
1,1,1-Trichloroethane	<0.0060		0.0060	0.00089	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
1,1,2-Trichloroethane	<0.0060		0.0060	0.00082	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Trichloroethene	<0.0060		0.0060	0.00099	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Vinyl acetate	<0.0060		0.0060	0.00094	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Vinyl chloride	<0.0060		0.0060	0.0013	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1
Xylenes, Total	<0.012		0.012	0.00054	mg/Kg	☼	07/26/13 09:05	08/02/13 02:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	07/26/13 09:05	08/02/13 02:52	1
Dibromofluoromethane	101		75 - 120	07/26/13 09:05	08/02/13 02:52	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	07/26/13 09:05	08/02/13 02:52	1
Toluene-d8 (Surr)	97		75 - 122	07/26/13 09:05	08/02/13 02:52	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	☼	08/06/13 07:15	08/16/13 11:20	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Client Sample ID: 846D-135-B01 Dup

Lab Sample ID: 500-59941-13

Date Collected: 07/26/13 09:05

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
2-Methylphenol	<0.21		0.21	0.056	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.054	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.047	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Naphthalene	<0.042		0.042	0.0081	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
4-Chloroaniline	<0.85		0.85	0.13	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
2,4,6-Trichlorophenol	<0.42		0.42	0.053	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Hexachlorocyclopentadiene	<0.85		0.85	0.20	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
2-Methylnaphthalene	<0.21		0.21	0.055	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
2-Nitroaniline	<0.21		0.21	0.076	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
2-Chloronaphthalene	<0.21		0.21	0.048	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
2-Nitrophenol	<0.42		0.42	0.066	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
3-Nitroaniline	<0.42		0.42	0.081	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
2,4-Dinitrophenol	<0.85		0.85	0.22	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Acenaphthylene	<0.042		0.042	0.0097	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Dibenzofuran	<0.21		0.21	0.051	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
4-Nitrophenol	<0.85		0.85	0.23	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Fluorene	<0.042		0.042	0.0096	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
4-Nitroaniline	<0.42		0.42	0.086	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Hexachlorobenzene	<0.085		0.085	0.0083	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Pentachlorophenol	<0.85		0.85	0.21	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
N-Nitrosodiphenylamine	<0.21		0.21	0.057	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Phenanthrene	0.062		0.042	0.018	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Anthracene	<0.042		0.042	0.0099	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Fluoranthene	0.20		0.042	0.017	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Pyrene	0.20		0.042	0.015	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Butyl benzyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Benzo[a]anthracene	0.10		0.042	0.0088	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Client Sample ID: 846D-135-B01 Dup

Lab Sample ID: 500-59941-13

Date Collected: 07/26/13 09:05

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.12		0.042	0.0095	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.056	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Di-n-octyl phthalate	<0.21		0.21	0.086	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Benzo[b]fluoranthene	0.19		0.042	0.0082	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Benzo[k]fluoranthene	0.17		0.042	0.010	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Benzo[a]pyrene	0.11		0.042	0.0077	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Indeno[1,2,3-cd]pyrene	0.070		0.042	0.014	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Dibenz(a,h)anthracene	0.031	J	0.042	0.012	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
Benzo[g,h,i]perylene	0.085		0.042	0.014	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1
3 & 4 Methylphenol	<0.21		0.21	0.080	mg/Kg	☼	08/06/13 07:15	08/16/13 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		30 - 110	08/06/13 07:15	08/16/13 11:20	1
Phenol-d5	58		31 - 110	08/06/13 07:15	08/16/13 11:20	1
Nitrobenzene-d5	57		30 - 115	08/06/13 07:15	08/16/13 11:20	1
2-Fluorobiphenyl	69		30 - 119	08/06/13 07:15	08/16/13 11:20	1
2,4,6-Tribromophenol	76		35 - 137	08/06/13 07:15	08/16/13 11:20	1
Terphenyl-d14	98		36 - 134	08/06/13 07:15	08/16/13 11:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.53	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Arsenic	6.0		0.65	0.13	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Barium	110		0.65	0.070	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Beryllium	0.63		0.26	0.023	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Boron	3.3		3.3	0.14	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Cadmium	0.55		0.13	0.017	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Calcium	13000	B	13	3.5	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Chromium	13		0.65	0.076	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Cobalt	6.0	B	0.33	0.023	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Copper	16		0.65	0.058	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Iron	14000		13	5.4	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Lead	25		0.33	0.097	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Magnesium	7500	B	6.5	1.3	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Manganese	450	B	0.65	0.036	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Nickel	13	B	0.65	0.064	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Potassium	1000	B	33	2.0	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Selenium	0.40	J	0.65	0.23	mg/Kg	☼	07/30/13 09:37	08/17/13 21:13	1
Silver	<0.33		0.33	0.024	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Sodium	120		65	8.8	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Thallium	<0.65		0.65	0.28	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Vanadium	22	B	0.33	0.048	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1
Zinc	51		1.3	0.26	mg/Kg	☼	07/30/13 09:37	08/13/13 06:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 06:02	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 06:02	1
Manganese	0.19		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 06:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Client Sample ID: 846D-135-B01 Dup

Lab Sample ID: 500-59941-13

Date Collected: 07/26/13 09:05

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.74	B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 22:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 22:08	1
Boron	0.82		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 22:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 22:08	1
Chromium	0.045		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:08	1
Cobalt	0.0079	J	0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 22:08	1
Iron	35		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 22:08	1
Lead	0.031		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 22:08	1
Manganese	0.26		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:08	1
Nickel	0.026		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:08	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 22:08	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 22:08	1
Zinc	0.52		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 22:08	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:40	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 11:50	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.020	0.0092	mg/Kg	☆	07/31/13 17:30	08/01/13 10:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.38		0.200	0.200	SU			08/09/13 12:20	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-3

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
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.

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact	Laboratory			
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com			
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 Total metal result exceeds MCL-MD-SPLP result exceeds Class I Standard, run TCLP for that specific parameter.	Project Name: <u>US6/IL7 Will/Cook Co.</u> Project No.: <u>IDOT 2013-022</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>AEI</u>			
Lab ID	Sample ID	Sample Date	Sample Time	Matrix

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
10	846D-135-001	7/26/13	9:00	S	X	X					X	X	X	X		
11	846D-135-002		9:20	S	X	X					X	X	X	X		
12	846D-135-003		9:30	S	X	X					X	X	X	X		
13	846D-135-001DP		9:05	S	X	X					X	X	X	X		

Relinquished by: <u>Kim A. Young (AEI)</u>	Date/Time: <u>7/26/13 4:25 AM</u>	Received by: <u>[Signature]</u>	Date/Time: <u>07/26/13 1625</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>07/26/13 1715</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/26/13 1715</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: 500-59862-6

Client Project/Site: IDOT - US 6/IL 7 - WO 022

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

8/19/2013 5:41:36 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

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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 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-6

Client Sample ID: 846D-135-B04

Lab Sample ID: 500-59862-16

Date Collected: 07/25/13 13:35

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	07/25/13 13:35	08/05/13 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	07/25/13 13:35	08/05/13 14:13	1
Dibromofluoromethane	107		75 - 120	07/25/13 13:35	08/05/13 14:13	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	07/25/13 13:35	08/05/13 14:13	1
Toluene-d8 (Surr)	96		75 - 122	07/25/13 13:35	08/05/13 14:13	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	☼	08/04/13 19:29	08/08/13 19:58	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-6

Client Sample ID: 846D-135-B04

Lab Sample ID: 500-59862-16

Date Collected: 07/25/13 13:35

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Nitrobenzene	<0.039	*	0.039	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Bis(2-chloroethoxy)methane	<0.20	*	0.20	0.043	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
1,2,4-Trichlorobenzene	<0.20	*	0.20	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
2,4-Dichlorophenol	<0.39	*	0.39	0.12	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
2-Nitrophenol	<0.39	*	0.39	0.062	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Diethyl phthalate	<0.20	*	0.20	0.066	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
4-Chlorophenyl phenyl ether	<0.20	*	0.20	0.062	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-6

Client Sample ID: 846D-135-B04

Lab Sample ID: 500-59862-16

Date Collected: 07/25/13 13:35

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Benzo[b]fluoranthene	0.0091	J	0.039	0.0076	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/04/13 19:29	08/08/13 19:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		30 - 110				08/04/13 19:29	08/08/13 19:58	1
Phenol-d5	81		31 - 110				08/04/13 19:29	08/08/13 19:58	1
Nitrobenzene-d5	72		30 - 115				08/04/13 19:29	08/08/13 19:58	1
2-Fluorobiphenyl	84		30 - 119				08/04/13 19:29	08/08/13 19:58	1
2,4,6-Tribromophenol	94		35 - 137				08/04/13 19:29	08/08/13 19:58	1
Terphenyl-d14	103		36 - 134				08/04/13 19:29	08/08/13 19:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Arsenic	8.8		0.58	0.12	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Barium	53		0.58	0.062	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Beryllium	0.44		0.23	0.021	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Boron	3.8	B	2.9	0.12	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Cadmium	0.15		0.12	0.015	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Calcium	47000	B	120	31	mg/Kg	☼	07/28/13 17:00	08/13/13 07:36	10
Chromium	11		0.58	0.067	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Cobalt	6.4		0.29	0.021	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Copper	19	B	0.58	0.052	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Iron	16000	B	12	4.8	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Lead	15		0.29	0.087	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Magnesium	24000	B	5.8	1.2	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Manganese	180	B	0.58	0.032	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Nickel	19		0.58	0.057	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Potassium	810	B	29	1.7	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Sodium	100		58	7.8	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Thallium	0.26	J	0.58	0.25	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Vanadium	14		0.29	0.043	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1
Zinc	50	B	1.2	0.23	mg/Kg	☼	07/28/13 17:00	08/07/13 21:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 14:10	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 14:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-6

Client Sample ID: 846D-135-B04

Lab Sample ID: 500-59862-16

Date Collected: 07/25/13 13:35

Matrix: Solid

Date Received: 07/26/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70		0.50	0.010	mg/L		07/30/13 10:30	08/07/13 18:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 18:08	1
Boron	0.93		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 18:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 18:08	1
Chromium	0.053		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:08	1
Cobalt	0.0067	J	0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 18:08	1
Iron	46		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 18:08	1
Lead	0.024		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 18:08	1
Manganese	0.13		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:08	1
Nickel	0.038		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:08	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 18:08	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 18:08	1
Zinc	0.49		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 18:08	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 15:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 15:56	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000026	J	0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 12:05	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.020	0.0092	mg/Kg	☆	07/30/13 17:45	07/31/13 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.09		0.200	0.200	SU			08/08/13 17:33	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-6

Qualifiers

GC/MS Semi VOA

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

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.

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamerica.com	Project Name: US6/IL7 WILL / COOK CO Project No.: IDOT 2013-022 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: AFI	COC No.: _____ of _____ Lab Job No.: 500-59062 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.		Matrix Key: W: Water S: Soil SL: Sludge L: Sediment DW: Drinking Water OL: Oil O: Other															
ANALYSES																	
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	
	846D-135-B01			S	X	X					X	X	X	X			
	846D-135-B01 DUP			S	X	X					X	X	X	X			
	846D-135-B02			S	X	X					X	X	X	X			
	846D-135-B03			S	X	X					X	X	X	X			
16	846D-135-B04	7/25/13	1:35P	S	X	X					X	X	X	X		0-1.5'	
Relinquished by: <u>Daniel J. Mackinson (AEI)</u>					Date/Time	Relinquished by: <u>[Signature]</u>					Date/Time	Relinquished by: <u>[Signature]</u>					Date/Time
					Date/Time						Date/Time						Date/Time
					Date/Time						Date/Time						Date/Time



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

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

10801 and 10959 W 159th St.

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.59943 Longitude: -87.88404
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

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

Contact: Sam Mead

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

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

Project Name: FAP 351 (U.S. 6/IL 7)Latitude: 41.59943 Longitude: -87.88404Uncontaminated 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 846D-136-B01 THRU -B08, AND -B10 WERE SAMPLED ADJACENT TO SITE No. 846D-136. SEE FIGURE 6, FIGURE 7, FIGURE 14 AND TABLE 3p OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORTS - TESTAMERICA JOB IDs: 500-59862-7, 500-59941-4 & 500-75284-2

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

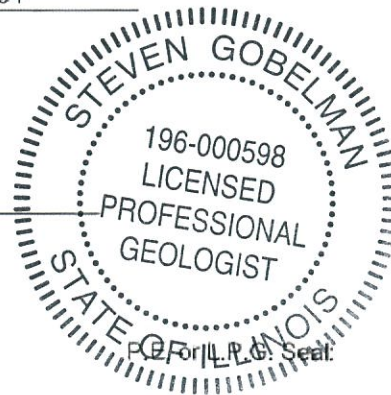
I, Steven Gobelman (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental 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: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date: 9/20/14

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-136

Orland Park School District

Sample ID	846D-136-B01	846D-136-B02	846D-136-B03-1	846D-136-B03-2					
Sample Depth (ft)	0-2	0-2	0-4	4-8					
Sample Date	7/26/2013	7/26/2013	7/26/2013	7/26/2013					
PID	0	0	0	0					
Sample pH	7.12	7.15	8.01	8.3					
Matrix	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.									

Sample ID	846D-136-B04-1	846D-136-B04-1 DUP	846D-136-B04-2	846D-136-B05-1					
Sample Depth (ft)	0-4	0-4	4-8	0-4					
Sample Date	7/26/2013	7/26/2013	7/26/2013	7/26/2013					
PID	0	0	0	0					
Sample pH	8.12	8.25	8.46	8.02					
Matrix	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.									

Sample ID	846D-136-B05-2	846D-136-B06	846D-136-B07	846D-136-B08	846D-136-B10					
Sample Depth (ft)	4-8	0-2	0-2	0-2	0-8					
Sample Date	7/26/2013	7/26/2013	7/26/2013	7/25/2013	4/17/2014					
PID	0	0	0	0	0					
Sample pH	8.15	7.61	7.27	8.99	7.42					
Matrix	Soil	Soil	Soil	Soil	Soil					
No Contaminants of Concern Noted.										

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59941-4
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/21/2013 4:22:25 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

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www.testamericainc.com

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

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

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

1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B01

Lab Sample ID: 500-59941-14

Date Collected: 07/26/13 10:20

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 76.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0060		0.0060	0.0026	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Benzene	<0.0060		0.0060	0.00082	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Bromodichloromethane	<0.0060		0.0060	0.0010	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Bromoform	<0.0060		0.0060	0.0014	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Bromomethane	<0.0060		0.0060	0.0018	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
2-Butanone (MEK)	<0.0060		0.0060	0.0022	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Carbon disulfide	<0.0060		0.0060	0.00090	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Carbon tetrachloride	<0.0060		0.0060	0.0011	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Chlorobenzene	<0.0060		0.0060	0.00061	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Chloroethane	<0.0060		0.0060	0.0016	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Chloroform	<0.0060		0.0060	0.00069	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Chloromethane	<0.0060		0.0060	0.0013	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
cis-1,2-Dichloroethene	<0.0060		0.0060	0.00085	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
cis-1,3-Dichloropropene	<0.0060		0.0060	0.00079	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Dibromochloromethane	<0.0060		0.0060	0.0010	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
1,1-Dichloroethane	<0.0060		0.0060	0.00095	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
1,2-Dichloroethane	<0.0060		0.0060	0.00089	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
1,1-Dichloroethene	<0.0060		0.0060	0.00097	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
1,2-Dichloropropane	<0.0060		0.0060	0.00091	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
1,3-Dichloropropene, Total	<0.0060		0.0060	0.00079	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Ethylbenzene	<0.0060		0.0060	0.0012	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
2-Hexanone	<0.0060		0.0060	0.0017	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Methylene Chloride	<0.0060		0.0060	0.0016	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
4-Methyl-2-pentanone (MIBK)	<0.0060		0.0060	0.0016	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Methyl tert-butyl ether	<0.0060		0.0060	0.00099	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Styrene	<0.0060		0.0060	0.00079	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
1,1,1,2-Tetrachloroethane	<0.0060		0.0060	0.0012	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Tetrachloroethene	<0.0060		0.0060	0.00092	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Toluene	<0.0060		0.0060	0.00084	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
trans-1,2-Dichloroethene	<0.0060		0.0060	0.00083	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
trans-1,3-Dichloropropene	<0.0060		0.0060	0.0011	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
1,1,1-Trichloroethane	<0.0060		0.0060	0.00090	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
1,1,2-Trichloroethane	<0.0060		0.0060	0.00082	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Trichloroethene	<0.0060		0.0060	0.00099	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Vinyl acetate	<0.0060		0.0060	0.00095	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Vinyl chloride	<0.0060		0.0060	0.0013	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1
Xylenes, Total	<0.012		0.012	0.00055	mg/Kg	☼	07/26/13 10:20	08/02/13 03:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	07/26/13 10:20	08/02/13 03:15	1
Dibromofluoromethane	107		75 - 120	07/26/13 10:20	08/02/13 03:15	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/26/13 10:20	08/02/13 03:15	1
Toluene-d8 (Surr)	94		75 - 122	07/26/13 10:20	08/02/13 03:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.069	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
1,3-Dichlorobenzene	<0.22		0.22	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
1,4-Dichlorobenzene	<0.22		0.22	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B01

Lab Sample ID: 500-59941-14

Date Collected: 07/26/13 10:20

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 76.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
2-Methylphenol	<0.22		0.22	0.057	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.055	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Hexachloroethane	<0.22		0.22	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
2-Chlorophenol	<0.22		0.22	0.062	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Nitrobenzene	<0.043		0.043	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
2,4-Dimethylphenol	<0.43		0.43	0.14	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Hexachlorobutadiene	<0.22		0.22	0.057	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Naphthalene	<0.043		0.043	0.0083	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
2,4-Dichlorophenol	<0.43		0.43	0.13	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
4-Chloroaniline	<0.87		0.87	0.13	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
2,4,6-Trichlorophenol	<0.43		0.43	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
2,4,5-Trichlorophenol	<0.43		0.43	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Hexachlorocyclopentadiene	<0.87		0.87	0.20	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
2-Methylnaphthalene	<0.22		0.22	0.056	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
2-Nitroaniline	<0.22		0.22	0.078	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
2-Chloronaphthalene	<0.22		0.22	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
4-Chloro-3-methylphenol	<0.43		0.43	0.21	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
2,6-Dinitrotoluene	<0.22		0.22	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
2-Nitrophenol	<0.43		0.43	0.068	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
3-Nitroaniline	<0.43		0.43	0.084	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Dimethyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
2,4-Dinitrophenol	<0.87		0.87	0.22	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Acenaphthylene	<0.043		0.043	0.0099	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
2,4-Dinitrotoluene	<0.22		0.22	0.066	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Acenaphthene	<0.043		0.043	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Dibenzofuran	<0.22		0.22	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
4-Nitrophenol	<0.87		0.87	0.23	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Fluorene	<0.043		0.043	0.0098	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
4-Nitroaniline	<0.43		0.43	0.089	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Hexachlorobenzene	<0.087		0.087	0.0085	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Diethyl phthalate	<0.22		0.22	0.072	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.068	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Pentachlorophenol	<0.87		0.87	0.22	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
N-Nitrosodiphenylamine	<0.22		0.22	0.058	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
4,6-Dinitro-2-methylphenol	<0.43		0.43	0.11	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Phenanthrene	<0.043		0.043	0.018	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Anthracene	<0.043		0.043	0.010	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Carbazole	<0.22		0.22	0.061	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Di-n-butyl phthalate	<0.22		0.22	0.055	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Fluoranthene	<0.043		0.043	0.018	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Pyrene	0.020	J	0.043	0.016	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Butyl benzyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Benzo[a]anthracene	0.012	J	0.043	0.0091	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B01

Lab Sample ID: 500-59941-14

Date Collected: 07/26/13 10:20

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 76.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.018	J	0.043	0.0098	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.036	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.057	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Di-n-octyl phthalate	<0.22		0.22	0.088	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Benzo[b]fluoranthene	0.027	J	0.043	0.0084	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Benzo[k]fluoranthene	<0.043		0.043	0.010	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Benzo[a]pyrene	0.013	J	0.043	0.0079	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.015	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Dibenz(a,h)anthracene	<0.043		0.043	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Benzo[g,h,i]perylene	<0.043		0.043	0.015	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
3 & 4 Methylphenol	<0.22		0.22	0.082	mg/Kg	☼	08/06/13 07:15	08/14/13 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		30 - 110				08/06/13 07:15	08/14/13 19:02	1
Phenol-d5	65		31 - 110				08/06/13 07:15	08/14/13 19:02	1
Nitrobenzene-d5	55		30 - 115				08/06/13 07:15	08/14/13 19:02	1
2-Fluorobiphenyl	55		30 - 119				08/06/13 07:15	08/14/13 19:02	1
2,4,6-Tribromophenol	85		35 - 137				08/06/13 07:15	08/14/13 19:02	1
Terphenyl-d14	64		36 - 134				08/06/13 07:15	08/14/13 19:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.52	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Arsenic	6.2		0.65	0.13	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Barium	100		0.65	0.069	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Beryllium	0.69		0.26	0.023	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Boron	2.9	J	3.2	0.14	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Cadmium	0.38		0.13	0.016	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Calcium	3200	B	13	3.5	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Chromium	15		0.65	0.075	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Cobalt	9.4	B	0.32	0.023	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Copper	17		0.65	0.058	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Iron	16000		13	5.3	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Lead	24		0.32	0.097	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Magnesium	2600	B	6.5	1.3	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Manganese	550	B	0.65	0.035	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Nickel	16	B	0.65	0.064	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Potassium	1300	B	32	2.0	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Selenium	0.64	J	0.65	0.23	mg/Kg	☼	07/30/13 09:37	08/17/13 21:19	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Sodium	130		65	8.7	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Thallium	0.31	J	0.65	0.27	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Vanadium	22	B	0.32	0.048	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1
Zinc	56		1.3	0.26	mg/Kg	☼	07/30/13 09:37	08/13/13 06:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.60		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 06:08	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 06:08	1
Manganese	0.039		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 06:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B01

Lab Sample ID: 500-59941-14

Date Collected: 07/26/13 10:20

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58	B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 22:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 22:14	1
Boron	0.68		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 22:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 22:14	1
Chromium	0.035		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:14	1
Cobalt	0.0056	J	0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 22:14	1
Iron	24		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 22:14	1
Lead	0.019		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 22:14	1
Manganese	0.17		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:14	1
Nickel	0.026		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:14	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 22:14	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 22:14	1
Zinc	0.44		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 22:14	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:41	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000039	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 11:52	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.019	0.0090	mg/Kg	☆	07/31/13 17:30	08/01/13 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.12		0.200	0.200	SU			08/09/13 12:22	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B02

Lab Sample ID: 500-59941-15

Date Collected: 07/26/13 10:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 83.6

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	☼	07/26/13 10:30	08/02/13 03:38	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Chloroform	<0.0051		0.0051	0.00058	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Dibromochloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
1,1,1-Dichloroethane	<0.0051		0.0051	0.00082	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	07/26/13 10:30	08/02/13 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	07/26/13 10:30	08/02/13 03:38	1
Dibromofluoromethane	105		75 - 120	07/26/13 10:30	08/02/13 03:38	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	07/26/13 10:30	08/02/13 03:38	1
Toluene-d8 (Surr)	94		75 - 122	07/26/13 10:30	08/02/13 03:38	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	☼	08/06/13 07:15	08/14/13 19:25	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B02

Lab Sample ID: 500-59941-15

Date Collected: 07/26/13 10:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Dibenzofuran	<0.19		0.19	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
4-Nitroaniline	<0.39		0.39	0.079	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Carbazole	<0.19		0.19	0.055	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Pyrene	0.017	J	0.039	0.014	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Butyl benzyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Benzo[a]anthracene	0.010	J	0.039	0.0081	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B02

Lab Sample ID: 500-59941-15

Date Collected: 07/26/13 10:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.039	0.0088	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Benzo[b]fluoranthene	0.023	J	0.039	0.0075	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Benzo[k]fluoranthene	<0.039		0.039	0.0092	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Benzo[a]pyrene	0.011	J	0.039	0.0071	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
Benzo[g,h,i]perylene	0.014	J	0.039	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/06/13 07:15	08/14/13 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		30 - 110	08/06/13 07:15	08/14/13 19:25	1
Phenol-d5	67		31 - 110	08/06/13 07:15	08/14/13 19:25	1
Nitrobenzene-d5	59		30 - 115	08/06/13 07:15	08/14/13 19:25	1
2-Fluorobiphenyl	60		30 - 119	08/06/13 07:15	08/14/13 19:25	1
2,4,6-Tribromophenol	94		35 - 137	08/06/13 07:15	08/14/13 19:25	1
Terphenyl-d14	85		36 - 134	08/06/13 07:15	08/14/13 19:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Arsenic	6.6		0.58	0.12	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Barium	80		0.58	0.062	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Beryllium	0.67		0.23	0.020	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Boron	2.1	J	2.9	0.12	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Cadmium	0.24		0.12	0.015	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Calcium	2000	B	12	3.1	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Chromium	15		0.58	0.067	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Cobalt	8.6	B	0.29	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Copper	14		0.58	0.051	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Iron	17000		12	4.8	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Lead	23		0.29	0.086	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Magnesium	2400	B	5.8	1.2	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Manganese	520	B	0.58	0.031	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Nickel	15	B	0.58	0.057	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Potassium	1100	B	29	1.7	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Selenium	0.58		0.58	0.21	mg/Kg	☼	07/30/13 09:37	08/17/13 21:25	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Sodium	62		58	7.8	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Thallium	0.29	J	0.58	0.24	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Vanadium	22	B	0.29	0.043	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1
Zinc	43		1.2	0.23	mg/Kg	☼	07/30/13 09:37	08/13/13 06:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4.7		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 06:14	1
Lead	0.010		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 06:14	1
Manganese	0.090		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 06:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B02

Lab Sample ID: 500-59941-15

Date Collected: 07/26/13 10:30

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.63	B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 22:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 22:35	1
Boron	0.65		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 22:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 22:35	1
Chromium	0.052		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:35	1
Cobalt	0.011	J	0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 22:35	1
Iron	41		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 22:35	1
Lead	0.026		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 22:35	1
Manganese	0.32		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:35	1
Nickel	0.044		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:35	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 22:35	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 22:35	1
Zinc	0.43		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 22:35	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:45	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000044	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 11:58	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.018	0.0086	mg/Kg	☆	07/31/13 17:30	08/01/13 12:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.15		0.200	0.200	SU			08/09/13 12:25	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B03-1

Lab Sample ID: 500-59941-16

Date Collected: 07/26/13 10:40

Matrix: Solid

Date Received: 07/26/13 16:25

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	☼	07/26/13 10:40	08/02/13 04:01	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Dibromochloromethane	<0.0046		0.0046	0.00081	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
1,1-Dichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	07/26/13 10:40	08/02/13 04:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	07/26/13 10:40	08/02/13 04:01	1
Dibromofluoromethane	103		75 - 120	07/26/13 10:40	08/02/13 04:01	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	07/26/13 10:40	08/02/13 04:01	1
Toluene-d8 (Surr)	97		75 - 122	07/26/13 10:40	08/02/13 04:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B03-1

Lab Sample ID: 500-59941-16

Date Collected: 07/26/13 10:40

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B03-1

Lab Sample ID: 500-59941-16

Date Collected: 07/26/13 10:40

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	08/06/13 07:15	08/14/13 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	61		30 - 110	08/06/13 07:15	08/14/13 19:48	1
Phenol-d5	69		31 - 110	08/06/13 07:15	08/14/13 19:48	1
Nitrobenzene-d5	61		30 - 115	08/06/13 07:15	08/14/13 19:48	1
2-Fluorobiphenyl	56		30 - 119	08/06/13 07:15	08/14/13 19:48	1
2,4,6-Tribromophenol	76		35 - 137	08/06/13 07:15	08/14/13 19:48	1
Terphenyl-d14	68		36 - 134	08/06/13 07:15	08/14/13 19:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Arsenic	7.2		0.59	0.12	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Barium	85		0.59	0.063	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Beryllium	0.75		0.24	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Boron	4.8		3.0	0.12	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Cadmium	0.41		0.12	0.015	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Calcium	2500	B	12	3.2	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Chromium	19		0.59	0.069	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Cobalt	11	B	0.30	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Copper	20		0.59	0.052	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Iron	22000		12	4.9	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Lead	12		0.30	0.088	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Magnesium	5100	B	5.9	1.2	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Manganese	370	B	0.59	0.032	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Nickel	32	B	0.59	0.058	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Potassium	1400	B	30	1.8	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Selenium	0.21	J	0.59	0.21	mg/Kg	☼	07/30/13 09:37	08/17/13 21:31	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Sodium	110		59	7.9	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Thallium	<0.59		0.59	0.25	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Vanadium	21	B	0.30	0.044	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1
Zinc	46		1.2	0.24	mg/Kg	☼	07/30/13 09:37	08/13/13 07:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61	B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 22:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 22:42	1
Boron	0.92		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 22:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B03-1

Lab Sample ID: 500-59941-16

Date Collected: 07/26/13 10:40

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 22:42	1
Chromium	<0.025		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:42	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 22:42	1
Iron	1.7		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 22:42	1
Lead	0.0051	J	0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 22:42	1
Manganese	0.011	J	0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:42	1
Nickel	<0.025		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:42	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 22:42	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 22:42	1
Zinc	0.44		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 22:42	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:46	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:00	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0090	mg/Kg	☆	07/31/13 17:30	08/01/13 12:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01		0.200	0.200	SU			08/09/13 12:27	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B03-2

Lab Sample ID: 500-59941-17

Date Collected: 07/26/13 10:45

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0074		0.0048	0.0021	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	07/26/13 10:45	08/02/13 04:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	07/26/13 10:45	08/02/13 04:24	1
Dibromofluoromethane	102		75 - 120	07/26/13 10:45	08/02/13 04:24	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	07/26/13 10:45	08/02/13 04:24	1
Toluene-d8 (Surr)	94		75 - 122	07/26/13 10:45	08/02/13 04:24	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	☼	08/06/13 07:15	08/14/13 20:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B03-2

Lab Sample ID: 500-59941-17

Date Collected: 07/26/13 10:45

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B03-2

Lab Sample ID: 500-59941-17

Date Collected: 07/26/13 10:45

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0092	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Benzo[b]fluoranthene	<0.040		0.040	0.0079	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Benzo[k]fluoranthene	<0.040		0.040	0.0097	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Benzo[a]pyrene	<0.040		0.040	0.0074	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	08/06/13 07:15	08/14/13 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		30 - 110	08/06/13 07:15	08/14/13 20:12	1
Phenol-d5	77		31 - 110	08/06/13 07:15	08/14/13 20:12	1
Nitrobenzene-d5	69		30 - 115	08/06/13 07:15	08/14/13 20:12	1
2-Fluorobiphenyl	69		30 - 119	08/06/13 07:15	08/14/13 20:12	1
2,4,6-Tribromophenol	96		35 - 137	08/06/13 07:15	08/14/13 20:12	1
Terphenyl-d14	88		36 - 134	08/06/13 07:15	08/14/13 20:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Arsenic	7.3		0.60	0.12	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Barium	45		0.60	0.064	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Beryllium	0.59		0.24	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Boron	7.2		3.0	0.13	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Cadmium	0.61		0.12	0.015	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Calcium	35000	B	12	3.3	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Chromium	15		0.60	0.070	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Cobalt	9.8	B	0.30	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Copper	19		0.60	0.053	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Iron	18000		12	4.9	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Lead	9.9		0.30	0.089	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Magnesium	17000	B	6.0	1.2	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Manganese	340	B	0.60	0.033	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Nickel	25	B	0.60	0.059	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Potassium	1900	B	30	1.8	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	07/30/13 09:37	08/17/13 21:52	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Sodium	130		60	8.0	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Thallium	0.29	J	0.60	0.25	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Vanadium	18	B	0.30	0.044	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1
Zinc	44		1.2	0.24	mg/Kg	☼	07/30/13 09:37	08/13/13 07:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 06:20	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 06:20	1
Manganese	0.52		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 06:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B03-2

Lab Sample ID: 500-59941-17

Date Collected: 07/26/13 10:45

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58	B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 22:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 22:48	1
Boron	0.73		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 22:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 22:48	1
Chromium	0.069		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:48	1
Cobalt	0.014	J	0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 22:48	1
Iron	59		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 22:48	1
Lead	0.027		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 22:48	1
Manganese	0.27		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:48	1
Nickel	0.058		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:48	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 22:48	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 22:48	1
Zinc	0.46		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 22:48	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:47	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000056	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:02	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.018	0.0086	mg/Kg	☆	07/31/13 17:30	08/01/13 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.30		0.200	0.200	SU			08/09/13 12:31	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B04-1

Lab Sample ID: 500-59941-18

Date Collected: 07/26/13 10:55

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.031		0.0051	0.0022	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	07/26/13 10:55	08/02/13 04:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	07/26/13 10:55	08/02/13 04:46	1
Dibromofluoromethane	103		75 - 120	07/26/13 10:55	08/02/13 04:46	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	07/26/13 10:55	08/02/13 04:46	1
Toluene-d8 (Surr)	94		75 - 122	07/26/13 10:55	08/02/13 04:46	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	☼	08/06/13 07:15	08/14/13 20:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B04-1

Lab Sample ID: 500-59941-18

Date Collected: 07/26/13 10:55

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B04-1

Lab Sample ID: 500-59941-18

Date Collected: 07/26/13 10:55

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/06/13 07:15	08/14/13 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		30 - 110	08/06/13 07:15	08/14/13 20:35	1
Phenol-d5	68		31 - 110	08/06/13 07:15	08/14/13 20:35	1
Nitrobenzene-d5	56		30 - 115	08/06/13 07:15	08/14/13 20:35	1
2-Fluorobiphenyl	52		30 - 119	08/06/13 07:15	08/14/13 20:35	1
2,4,6-Tribromophenol	77		35 - 137	08/06/13 07:15	08/14/13 20:35	1
Terphenyl-d14	72		36 - 134	08/06/13 07:15	08/14/13 20:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Arsenic	6.3		0.58	0.11	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Barium	38		0.58	0.062	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Beryllium	0.52		0.23	0.020	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Boron	7.2		2.9	0.12	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Cadmium	0.53		0.12	0.015	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Calcium	35000	B	12	3.1	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Chromium	14		0.58	0.067	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Cobalt	9.3	B	0.29	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Copper	18		0.58	0.051	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Iron	16000		12	4.7	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Lead	10		0.29	0.086	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Magnesium	18000	B	5.8	1.2	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Manganese	310	B	0.58	0.031	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Nickel	23	B	0.58	0.056	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Potassium	2000	B	29	1.7	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Selenium	<0.58		0.58	0.20	mg/Kg	☼	07/30/13 09:37	08/17/13 21:58	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Sodium	270		58	7.7	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Thallium	<0.58		0.58	0.24	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Vanadium	16	B	0.29	0.043	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1
Zinc	41		1.2	0.23	mg/Kg	☼	07/30/13 09:37	08/13/13 07:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 06:27	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 06:27	1
Manganese	1.5		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 06:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B04-1

Lab Sample ID: 500-59941-18

Date Collected: 07/26/13 10:55

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70	B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 22:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 22:54	1
Boron	0.93		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 22:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 22:54	1
Chromium	0.065		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:54	1
Cobalt	0.018	J	0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 22:54	1
Iron	57		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 22:54	1
Lead	0.032		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 22:54	1
Manganese	0.41		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:54	1
Nickel	0.067		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 22:54	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 22:54	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 22:54	1
Zinc	0.53		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 22:54	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:48	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000038	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:04	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0085	mg/Kg	☆	07/31/13 17:30	08/01/13 12:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.12		0.200	0.200	SU			08/09/13 12:33	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B04-1 Dup

Lab Sample ID: 500-59941-19

Date Collected: 07/26/13 11:00

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
1,1,1-Dichloroethane	<0.0045		0.0045	0.00073	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	07/26/13 11:00	08/02/13 05:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	07/26/13 11:00	08/02/13 05:09	1
Dibromofluoromethane	102		75 - 120	07/26/13 11:00	08/02/13 05:09	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/26/13 11:00	08/02/13 05:09	1
Toluene-d8 (Surr)	95		75 - 122	07/26/13 11:00	08/02/13 05:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B04-1 Dup

Lab Sample ID: 500-59941-19

Date Collected: 07/26/13 11:00

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B04-1 Dup

Lab Sample ID: 500-59941-19

Date Collected: 07/26/13 11:00

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/06/13 07:15	08/14/13 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		30 - 110	08/06/13 07:15	08/14/13 20:59	1
Phenol-d5	78		31 - 110	08/06/13 07:15	08/14/13 20:59	1
Nitrobenzene-d5	68		30 - 115	08/06/13 07:15	08/14/13 20:59	1
2-Fluorobiphenyl	65		30 - 119	08/06/13 07:15	08/14/13 20:59	1
2,4,6-Tribromophenol	83		35 - 137	08/06/13 07:15	08/14/13 20:59	1
Terphenyl-d14	79		36 - 134	08/06/13 07:15	08/14/13 20:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Arsenic	6.4		0.57	0.11	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Barium	37		0.57	0.061	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Beryllium	0.53		0.23	0.020	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Boron	7.5		2.8	0.12	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Cadmium	0.56		0.11	0.014	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Calcium	34000 B		11	3.1	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Chromium	14		0.57	0.066	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Cobalt	9.4 B		0.28	0.020	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Copper	18		0.57	0.051	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Iron	17000		11	4.7	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Lead	10		0.28	0.085	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Magnesium	18000 B		5.7	1.2	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Manganese	350 B		0.57	0.031	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Nickel	25 B		0.57	0.056	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Potassium	2000 B		28	1.7	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	07/30/13 09:37	08/17/13 22:05	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Sodium	300		57	7.6	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Vanadium	16 B		0.28	0.042	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1
Zinc	42		1.1	0.23	mg/Kg	☼	07/30/13 09:37	08/13/13 07:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/13 12:00	08/21/13 06:33	1
Chromium	<0.025		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 06:33	1
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 06:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B04-1 Dup

Lab Sample ID: 500-59941-19

Date Collected: 07/26/13 11:00

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 06:33	1
Manganese	1.0		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 06:33	1
Nickel	<0.025		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 06:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71	B	0.50	0.010	mg/L		08/04/13 07:45	08/12/13 23:00	1
Beryllium	0.0047		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 23:00	1
Boron	0.86		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 23:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 23:00	1
Chromium	0.11		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 23:00	1
Cobalt	0.031		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 23:00	1
Iron	100		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 23:00	1
Lead	0.052		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 23:00	1
Manganese	0.65		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 23:00	1
Nickel	0.12		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 23:00	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 23:00	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 23:00	1
Zinc	0.58		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 23:00	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:48	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:06	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0086	mg/Kg	☼	07/31/13 17:30	08/01/13 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.25		0.200	0.200	SU			08/09/13 12:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B04-2

Lab Sample ID: 500-59941-20

Date Collected: 07/26/13 11:15

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 78.4

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	☼	07/26/13 11:15	08/02/13 05:32	1
Benzene	<0.0053		0.0053	0.00073	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Bromodichloromethane	<0.0053		0.0053	0.00091	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Carbon disulfide	<0.0053		0.0053	0.00079	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Carbon tetrachloride	<0.0053		0.0053	0.00097	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Chlorobenzene	<0.0053		0.0053	0.00054	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Chloroethane	<0.0053		0.0053	0.0014	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00070	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Dibromochloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
1,1-Dichloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
1,1,1-Dichloroethane	<0.0053		0.0053	0.00086	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
1,2-Dichloropropane	<0.0053		0.0053	0.00081	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00070	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00088	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Styrene	<0.0053		0.0053	0.00070	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
1,1,1,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Tetrachloroethene	<0.0053		0.0053	0.00081	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Toluene	<0.0053		0.0053	0.00074	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00095	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Trichloroethene	<0.0053		0.0053	0.00088	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Vinyl acetate	<0.0053		0.0053	0.00083	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	07/26/13 11:15	08/02/13 05:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	07/26/13 11:15	08/02/13 05:32	1
Dibromofluoromethane	98		75 - 120	07/26/13 11:15	08/02/13 05:32	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	07/26/13 11:15	08/02/13 05:32	1
Toluene-d8 (Surr)	98		75 - 122	07/26/13 11:15	08/02/13 05:32	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	☼	08/06/13 07:15	08/17/13 18:11	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B04-2

Lab Sample ID: 500-59941-20

Date Collected: 07/26/13 11:15

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B04-2

Lab Sample ID: 500-59941-20

Date Collected: 07/26/13 11:15

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Benzo[b]fluoranthene	<0.040		0.040	0.0079	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Benzo[k]fluoranthene	<0.040		0.040	0.0097	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Benzo[a]pyrene	<0.040		0.040	0.0074	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
Benzo[g,h,i]perylene	0.023	J	0.040	0.014	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	08/06/13 07:15	08/17/13 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		30 - 110	08/06/13 07:15	08/17/13 18:11	1
Phenol-d5	69		31 - 110	08/06/13 07:15	08/17/13 18:11	1
Nitrobenzene-d5	61		30 - 115	08/06/13 07:15	08/17/13 18:11	1
2-Fluorobiphenyl	69		30 - 119	08/06/13 07:15	08/17/13 18:11	1
2,4,6-Tribromophenol	63		35 - 137	08/06/13 07:15	08/17/13 18:11	1
Terphenyl-d14	77		36 - 134	08/06/13 07:15	08/17/13 18:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Arsenic	8.9		0.62	0.12	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Barium	32		0.62	0.066	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Beryllium	0.43		0.25	0.022	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Boron	3.7		3.1	0.13	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Cadmium	0.47		0.12	0.016	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Calcium	2400	B	12	3.3	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Chromium	12		0.62	0.072	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Cobalt	10	B	0.31	0.022	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Copper	34		0.62	0.055	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Iron	19000		12	5.1	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Lead	18		0.31	0.092	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Magnesium	3400	B	6.2	1.3	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Manganese	510	B	0.62	0.034	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Nickel	30	B	0.62	0.061	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Potassium	1300	B	31	1.9	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Selenium	0.31	J	0.62	0.22	mg/Kg	☼	07/30/13 09:37	08/17/13 22:11	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Sodium	510		62	8.3	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Thallium	0.80		0.62	0.26	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Vanadium	13	B	0.31	0.046	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1
Zinc	85		1.2	0.25	mg/Kg	☼	07/30/13 09:37	08/13/13 11:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 06:39	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 06:39	1
Manganese	1.6		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 06:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B04-2

Lab Sample ID: 500-59941-20

Date Collected: 07/26/13 11:15

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.018	J	0.025	0.010	mg/L		08/17/13 12:00	08/21/13 06:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53		0.50	0.010	mg/L		08/04/13 07:45	08/12/13 23:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 23:23	1
Boron	0.85		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 23:23	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 23:23	1
Chromium	0.089		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 23:23	1
Cobalt	0.033		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 23:23	1
Iron	100		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 23:23	1
Lead	0.059		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 23:23	1
Manganese	0.63		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 23:23	1
Nickel	0.11		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 23:23	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 23:23	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 23:23	1
Zinc	0.79		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 23:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/17/13 12:00	08/19/13 12:52	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:51	1
Thallium	0.0028		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:51	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00021		0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:22	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.021	0.0098	mg/Kg	☼	07/31/13 17:30	08/01/13 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.46		0.200	0.200	SU			08/09/13 12:38	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B05-1

Lab Sample ID: 500-59941-21

Date Collected: 07/26/13 11:45

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0059		0.0049	0.0021	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
1,1,1-Dichloroethane	<0.0049		0.0049	0.00079	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	07/26/13 11:45	08/02/13 05:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	07/26/13 11:45	08/02/13 05:55	1
Dibromofluoromethane	105		75 - 120	07/26/13 11:45	08/02/13 05:55	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/26/13 11:45	08/02/13 05:55	1
Toluene-d8 (Surr)	91		75 - 122	07/26/13 11:45	08/02/13 05:55	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	☼	08/07/13 07:10	08/13/13 13:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B05-1

Lab Sample ID: 500-59941-21

Date Collected: 07/26/13 11:45

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B05-1

Lab Sample ID: 500-59941-21

Date Collected: 07/26/13 11:45

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/07/13 07:10	08/13/13 13:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		30 - 110				08/07/13 07:10	08/13/13 13:07	1
Phenol-d5	42		31 - 110				08/07/13 07:10	08/13/13 13:07	1
Nitrobenzene-d5	54		30 - 115				08/07/13 07:10	08/13/13 13:07	1
2-Fluorobiphenyl	58		30 - 119				08/07/13 07:10	08/13/13 13:07	1
2,4,6-Tribromophenol	63		35 - 137				08/07/13 07:10	08/13/13 13:07	1
Terphenyl-d14	81		36 - 134				08/07/13 07:10	08/13/13 13:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Arsenic	3.5		0.59	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Barium	45		0.59	0.063	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Beryllium	0.62		0.24	0.021	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Boron	8.9		2.9	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Cadmium	0.59		0.12	0.015	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Calcium	55000	B	12	3.2	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Chromium	17		0.59	0.068	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Cobalt	6.8	B	0.29	0.021	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Copper	13		0.59	0.052	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Iron	15000		12	4.8	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Lead	7.0		0.29	0.088	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Magnesium	19000	B	5.9	1.2	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Manganese	250	B	0.59	0.032	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Nickel	20	B	0.59	0.058	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Potassium	2300	B	29	1.8	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	07/30/13 10:14	08/17/13 13:49	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Sodium	160		59	7.9	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Thallium	<0.59		0.59	0.25	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Vanadium	18	B	0.29	0.044	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1
Zinc	32		1.2	0.24	mg/Kg	☼	07/30/13 10:14	08/13/13 07:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 06:45	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 06:45	1
Manganese	0.027		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 06:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B05-1

Lab Sample ID: 500-59941-21

Date Collected: 07/26/13 11:45

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.50		0.50	0.010	mg/L		08/04/13 07:45	08/12/13 23:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 23:29	1
Boron	0.75		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 23:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 23:29	1
Chromium	0.035		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 23:29	1
Cobalt	0.0064	J	0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 23:29	1
Iron	23		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 23:29	1
Lead	0.010		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 23:29	1
Manganese	0.16		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 23:29	1
Nickel	0.024	J	0.025	0.010	mg/L		08/04/13 07:45	08/12/13 23:29	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 23:29	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 23:29	1
Zinc	0.36		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 23:29	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:52	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:24	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0099	J	0.017	0.0081	mg/Kg	✪	07/31/13 17:30	08/01/13 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.02		0.200	0.200	SU			08/09/13 12:40	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B05-2

Lab Sample ID: 500-59941-22

Date Collected: 07/26/13 11:50

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0061		0.0045	0.0019	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	07/26/13 11:50	08/02/13 06:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	07/26/13 11:50	08/02/13 06:18	1
Dibromofluoromethane	106		75 - 120	07/26/13 11:50	08/02/13 06:18	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/26/13 11:50	08/02/13 06:18	1
Toluene-d8 (Surr)	92		75 - 122	07/26/13 11:50	08/02/13 06:18	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	☼	08/07/13 07:10	08/13/13 13:27	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B05-2

Lab Sample ID: 500-59941-22

Date Collected: 07/26/13 11:50

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B05-2

Lab Sample ID: 500-59941-22

Date Collected: 07/26/13 11:50

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/07/13 07:10	08/13/13 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		30 - 110	08/07/13 07:10	08/13/13 13:27	1
Phenol-d5	55		31 - 110	08/07/13 07:10	08/13/13 13:27	1
Nitrobenzene-d5	68		30 - 115	08/07/13 07:10	08/13/13 13:27	1
2-Fluorobiphenyl	76		30 - 119	08/07/13 07:10	08/13/13 13:27	1
2,4,6-Tribromophenol	74		35 - 137	08/07/13 07:10	08/13/13 13:27	1
Terphenyl-d14	98		36 - 134	08/07/13 07:10	08/13/13 13:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Arsenic	5.4		0.56	0.11	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Barium	30		0.56	0.060	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Beryllium	0.53		0.23	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Boron	7.0		2.8	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Cadmium	0.57		0.11	0.014	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Calcium	37000	B	11	3.1	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Chromium	15		0.56	0.065	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Cobalt	5.2	B	0.28	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Copper	19		0.56	0.050	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Iron	16000		11	4.6	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Lead	10		0.28	0.084	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Magnesium	25000	B	5.6	1.2	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Manganese	220	B	0.56	0.031	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Nickel	18	B	0.56	0.055	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Potassium	1900	B	28	1.7	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/30/13 10:14	08/17/13 13:55	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Sodium	120		56	7.6	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Vanadium	15	B	0.28	0.042	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1
Zinc	49		1.1	0.23	mg/Kg	☼	07/30/13 10:14	08/13/13 08:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 11:26	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 11:26	1
Manganese	0.25		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 11:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B05-2

Lab Sample ID: 500-59941-22

Date Collected: 07/26/13 11:50

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61		0.50	0.010	mg/L		08/04/13 07:45	08/12/13 23:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 23:36	1
Boron	0.90		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 23:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 23:36	1
Chromium	0.071		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 23:36	1
Cobalt	0.020	J	0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 23:36	1
Iron	77		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 23:36	1
Lead	0.037		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 23:36	1
Manganese	0.27		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 23:36	1
Nickel	0.067		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 23:36	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 23:36	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 23:36	1
Zinc	0.60		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 23:36	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:53	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000073	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:26	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.017	0.0082	mg/Kg	☆	07/31/13 17:30	08/01/13 13:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.15		0.200	0.200	SU			08/09/13 12:42	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B06

Lab Sample ID: 500-59941-23

Date Collected: 07/26/13 12:05

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 89.2

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	☼	07/26/13 12:05	08/02/13 06:40	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
1,1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	07/26/13 12:05	08/02/13 06:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	07/26/13 12:05	08/02/13 06:40	1
Dibromofluoromethane	105		75 - 120	07/26/13 12:05	08/02/13 06:40	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	07/26/13 12:05	08/02/13 06:40	1
Toluene-d8 (Surr)	93		75 - 122	07/26/13 12:05	08/02/13 06:40	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	☼	08/07/13 07:10	08/13/13 13:48	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B06

Lab Sample ID: 500-59941-23

Date Collected: 07/26/13 12:05

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Hexachlorocyclopentadiene	<0.72		0.72	0.17	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Acenaphthylene	<0.036		0.036	0.0082	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Fluorene	<0.036		0.036	0.0081	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
4-Nitroaniline	<0.36		0.36	0.073	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Anthracene	<0.036		0.036	0.0084	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Fluoranthene	0.015	J	0.036	0.015	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Benzo[a]anthracene	<0.036		0.036	0.0075	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B06

Lab Sample ID: 500-59941-23

Date Collected: 07/26/13 12:05

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.036	0.0081	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Benzo[b]fluoranthene	0.013	J	0.036	0.0069	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Benzo[k]fluoranthene	<0.036		0.036	0.0085	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Benzo[a]pyrene	0.011	J	0.036	0.0065	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Indeno[1,2,3-cd]pyrene	0.012	J	0.036	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	08/07/13 07:10	08/13/13 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		30 - 110				08/07/13 07:10	08/13/13 13:48	1
Phenol-d5	54		31 - 110				08/07/13 07:10	08/13/13 13:48	1
Nitrobenzene-d5	51		30 - 115				08/07/13 07:10	08/13/13 13:48	1
2-Fluorobiphenyl	64		30 - 119				08/07/13 07:10	08/13/13 13:48	1
2,4,6-Tribromophenol	73		35 - 137				08/07/13 07:10	08/13/13 13:48	1
Terphenyl-d14	91		36 - 134				08/07/13 07:10	08/13/13 13:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Arsenic	7.3		0.55	0.11	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Barium	69		0.55	0.059	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Beryllium	0.69		0.22	0.019	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Boron	3.6		2.8	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Cadmium	0.42		0.11	0.014	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Calcium	3700	B	11	3.0	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Chromium	17		0.55	0.064	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Cobalt	11	B	0.28	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Copper	16		0.55	0.049	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Iron	19000		11	4.5	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Lead	20		0.28	0.082	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Magnesium	4000	B	5.5	1.1	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Manganese	450	B	0.55	0.030	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Nickel	20	B	0.55	0.054	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Potassium	1600	B	28	1.7	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Selenium	0.42	J	0.55	0.20	mg/Kg	☼	07/30/13 10:14	08/17/13 14:15	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Sodium	200		55	7.4	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Thallium	0.43	J	0.55	0.23	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Vanadium	23	B	0.28	0.041	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1
Zinc	45		1.1	0.22	mg/Kg	☼	07/30/13 10:14	08/13/13 08:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.0		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 11:51	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 11:51	1
Manganese	0.095		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 11:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B06

Lab Sample ID: 500-59941-23

Date Collected: 07/26/13 12:05

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.66		0.50	0.010	mg/L		08/04/13 07:45	08/12/13 23:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/12/13 23:57	1
Boron	0.86		0.10	0.050	mg/L		08/04/13 07:45	08/12/13 23:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/12/13 23:57	1
Chromium	0.051		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 23:57	1
Cobalt	0.011	J	0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 23:57	1
Iron	38		0.20	0.20	mg/L		08/04/13 07:45	08/12/13 23:57	1
Lead	0.023		0.0075	0.0050	mg/L		08/04/13 07:45	08/12/13 23:57	1
Manganese	0.25		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 23:57	1
Nickel	0.046		0.025	0.010	mg/L		08/04/13 07:45	08/12/13 23:57	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/12/13 23:57	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/12/13 23:57	1
Zinc	0.49		0.10	0.020	mg/L		08/04/13 07:45	08/12/13 23:57	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:56	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000035	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:28	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.017	0.0080	mg/Kg	☆	07/31/13 17:30	08/01/13 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.61		0.200	0.200	SU			08/09/13 12:44	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B07

Lab Sample ID: 500-59941-24

Date Collected: 07/26/13 12:15

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 89.4

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	☼	07/26/13 12:15	08/02/13 07:03	1
Benzene	<0.0056		0.0056	0.00076	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Bromodichloromethane	<0.0056		0.0056	0.00096	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Bromoform	<0.0056		0.0056	0.0013	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Bromomethane	<0.0056		0.0056	0.0017	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
2-Butanone (MEK)	<0.0056		0.0056	0.0020	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Carbon disulfide	<0.0056		0.0056	0.00083	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Carbon tetrachloride	<0.0056		0.0056	0.0010	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Chlorobenzene	<0.0056		0.0056	0.00056	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Chloroethane	<0.0056		0.0056	0.0015	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Chloroform	<0.0056		0.0056	0.00064	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Chloromethane	<0.0056		0.0056	0.0012	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
cis-1,2-Dichloroethene	<0.0056		0.0056	0.00079	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
cis-1,3-Dichloropropene	<0.0056		0.0056	0.00073	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Dibromochloromethane	<0.0056		0.0056	0.00097	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
1,1-Dichloroethane	<0.0056		0.0056	0.00088	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
1,2-Dichloroethane	<0.0056		0.0056	0.00082	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
1,1-Dichloroethene	<0.0056		0.0056	0.00090	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
1,2-Dichloropropane	<0.0056		0.0056	0.00084	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
1,3-Dichloropropene, Total	<0.0056		0.0056	0.00073	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Ethylbenzene	<0.0056		0.0056	0.0011	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
2-Hexanone	<0.0056		0.0056	0.0016	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Methylene Chloride	<0.0056		0.0056	0.0015	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0015	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Methyl tert-butyl ether	<0.0056		0.0056	0.00092	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Styrene	<0.0056		0.0056	0.00073	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
1,1,2,2-Tetrachloroethane	<0.0056		0.0056	0.0011	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Tetrachloroethene	<0.0056		0.0056	0.00085	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Toluene	<0.0056		0.0056	0.00078	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
trans-1,2-Dichloroethene	<0.0056		0.0056	0.00076	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
trans-1,3-Dichloropropene	<0.0056		0.0056	0.0010	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
1,1,1-Trichloroethane	<0.0056		0.0056	0.00083	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
1,1,2-Trichloroethane	<0.0056		0.0056	0.00076	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Trichloroethene	<0.0056		0.0056	0.00092	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Vinyl acetate	<0.0056		0.0056	0.00087	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Vinyl chloride	<0.0056		0.0056	0.0012	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1
Xylenes, Total	<0.011		0.011	0.00050	mg/Kg	☼	07/26/13 12:15	08/02/13 07:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	07/26/13 12:15	08/02/13 07:03	1
Dibromofluoromethane	102		75 - 120	07/26/13 12:15	08/02/13 07:03	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/26/13 12:15	08/02/13 07:03	1
Toluene-d8 (Surr)	93		75 - 122	07/26/13 12:15	08/02/13 07:03	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	☼	08/07/13 07:10	08/13/13 14:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B07

Lab Sample ID: 500-59941-24

Date Collected: 07/26/13 12:15

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.056	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Hexachlorobenzene	<0.074		0.074	0.0073	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Diethyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Di-n-butyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Fluoranthene	0.020	J	0.037	0.015	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Pyrene	0.018	J	0.037	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Benzo[a]anthracene	0.0096	J	0.037	0.0077	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B07

Lab Sample ID: 500-59941-24

Date Collected: 07/26/13 12:15

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.037	0.0083	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Benzo[b]fluoranthene	0.017	J	0.037	0.0072	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Benzo[a]pyrene	0.013	J	0.037	0.0067	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Indeno[1,2,3-cd]pyrene	0.013	J	0.037	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/07/13 07:10	08/13/13 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		30 - 110				08/07/13 07:10	08/13/13 14:09	1
Phenol-d5	57		31 - 110				08/07/13 07:10	08/13/13 14:09	1
Nitrobenzene-d5	56		30 - 115				08/07/13 07:10	08/13/13 14:09	1
2-Fluorobiphenyl	61		30 - 119				08/07/13 07:10	08/13/13 14:09	1
2,4,6-Tribromophenol	67		35 - 137				08/07/13 07:10	08/13/13 14:09	1
Terphenyl-d14	81		36 - 134				08/07/13 07:10	08/13/13 14:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Arsenic	7.4		0.56	0.11	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Barium	89		0.56	0.059	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Beryllium	0.70		0.22	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Boron	3.6		2.8	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Cadmium	0.42		0.11	0.014	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Calcium	3600	B	11	3.0	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Chromium	17		0.56	0.064	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Cobalt	12	B	0.28	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Copper	14		0.56	0.049	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Iron	19000		11	4.6	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Lead	22		0.28	0.083	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Magnesium	3700	B	5.6	1.1	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Manganese	920		5.6	0.30	mg/Kg	☼	07/30/13 10:14	08/17/13 15:07	10
Nickel	17	B	0.56	0.055	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Potassium	1400	B	28	1.7	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Selenium	0.59		0.56	0.20	mg/Kg	☼	07/30/13 10:14	08/17/13 14:21	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Sodium	82		56	7.4	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Thallium	0.24	J	0.56	0.23	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Vanadium	25	B	0.28	0.041	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1
Zinc	42		1.1	0.22	mg/Kg	☼	07/30/13 10:14	08/13/13 08:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.73		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 11:57	1
Lead	0.0052	J	0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 11:57	1
Manganese	0.055		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 11:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Client Sample ID: 846D-136-B07

Lab Sample ID: 500-59941-24

Date Collected: 07/26/13 12:15

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.69		0.50	0.010	mg/L		08/04/13 07:45	08/13/13 00:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/13/13 00:03	1
Boron	0.94		0.10	0.050	mg/L		08/04/13 07:45	08/13/13 00:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/13/13 00:03	1
Chromium	0.042		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:03	1
Cobalt	0.0089	J	0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:03	1
Iron	33		0.20	0.20	mg/L		08/04/13 07:45	08/13/13 00:03	1
Lead	0.019		0.0075	0.0050	mg/L		08/04/13 07:45	08/13/13 00:03	1
Manganese	0.20		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:03	1
Nickel	0.032		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:03	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/13/13 00:03	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:03	1
Zinc	0.51		0.10	0.020	mg/L		08/04/13 07:45	08/13/13 00:03	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:57	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:30	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0083	mg/Kg	☆	07/31/13 17:30	08/01/13 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.27		0.200	0.200	SU			08/09/13 12:46	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-4

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F	Duplicate RPD exceeds the control limit
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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



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:	US6/IL7 Will Cook Co
Project No.:	IDOT 2013-022
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.:	1 of 1
Lab Job No.:	500-599A1
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.

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	
25	846D-137-B01	7/24/13	11:00	S	X	X					X	X	X	X			0'-2'
26	846D-137-B02		10:55														0'-2'
27	846D-137-B03		10:30														0'-1'
28	846D-137-B04		10:20														0'-1'
29	846D-137-B04 DUP		10:25														0'-1'
30	846D-137-B05		11:15	S	X	X					X	X	X	X			0'-1'
Relinquished by:					Received by:					Date/Time	Date/Time	Date/Time	Date/Time				
Kelli A. M... [Signature]					[Signature]					7/26/13	4:25 PM	6/26/13	1625				
[Signature]					[Signature]					07/24/13	1715	7/26/13	1715				
[Signature]					[Signature]												

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: 500-59862-7
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/16/2013 4:51:13 PM

Richard Wright, Project Manager II
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 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-7

Client Sample ID: 846D-136-B08

Lab Sample ID: 500-59862-17

Date Collected: 07/25/13 11:20

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.020		0.0051	0.0022	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Benzene	<0.0051		0.0051	0.00069	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Carbon tetrachloride	<0.0051		0.0051	0.00092	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Chlorobenzene	<0.0051		0.0051	0.00051	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Chloroform	<0.0051		0.0051	0.00058	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00066	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Dibromochloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00066	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00083	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Styrene	<0.0051		0.0051	0.00066	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Tetrachloroethene	<0.0051		0.0051	0.00077	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Trichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Vinyl acetate	<0.0051		0.0051	0.00079	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	07/25/13 11:20	08/05/13 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	07/25/13 11:20	08/05/13 14:36	1
Dibromofluoromethane	105		75 - 120	07/25/13 11:20	08/05/13 14:36	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/25/13 11:20	08/05/13 14:36	1
Toluene-d8 (Surr)	96		75 - 122	07/25/13 11:20	08/05/13 14:36	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	☼	08/04/13 20:16	08/09/13 16:18	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-7

Client Sample ID: 846D-136-B08

Lab Sample ID: 500-59862-17

Date Collected: 07/25/13 11:20

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Nitrobenzene	<0.036	*	0.036	0.011	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Bis(2-chloroethoxy)methane	<0.18	*	0.18	0.040	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
1,2,4-Trichlorobenzene	<0.18	*	0.18	0.041	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
2,4-Dichlorophenol	<0.36	*	0.36	0.11	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
2-Nitrophenol	<0.36	*	0.36	0.057	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Diethyl phthalate	<0.18	*	0.18	0.061	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
4-Chlorophenyl phenyl ether	<0.18	*	0.18	0.058	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Phenanthrene	0.019	J	0.036	0.015	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Fluoranthene	0.079		0.036	0.015	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Pyrene	0.14		0.036	0.013	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Benzo[a]anthracene	0.044		0.036	0.0077	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-7

Client Sample ID: 846D-136-B08

Lab Sample ID: 500-59862-17

Date Collected: 07/25/13 11:20

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.066		0.036	0.0083	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Benzo[b]fluoranthene	0.11		0.036	0.0071	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Benzo[k]fluoranthene	0.046		0.036	0.0087	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Benzo[a]pyrene	0.080		0.036	0.0067	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Indeno[1,2,3-cd]pyrene	0.055		0.036	0.012	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Dibenz(a,h)anthracene	0.022	J	0.036	0.010	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
Benzo[g,h,i]perylene	0.069		0.036	0.012	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/04/13 20:16	08/09/13 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		30 - 110	08/04/13 20:16	08/09/13 16:18	1
Phenol-d5	82		31 - 110	08/04/13 20:16	08/09/13 16:18	1
Nitrobenzene-d5	73		30 - 115	08/04/13 20:16	08/09/13 16:18	1
2-Fluorobiphenyl	86		30 - 119	08/04/13 20:16	08/09/13 16:18	1
2,4,6-Tribromophenol	80		35 - 137	08/04/13 20:16	08/09/13 16:18	1
Terphenyl-d14	126		36 - 134	08/04/13 20:16	08/09/13 16:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.0	0.42	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Arsenic	1.9		0.52	0.10	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Barium	8.1		0.52	0.056	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Beryllium	0.14	J	0.21	0.018	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Boron	12	B	2.6	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Cadmium	0.10		0.10	0.013	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Calcium	170000	B	100	28	mg/Kg	☼	07/28/13 17:00	08/13/13 07:41	10
Chromium	3.9		0.52	0.060	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Cobalt	2.4		0.26	0.019	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Copper	3.3	B	0.52	0.046	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Iron	3400	B	10	4.3	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Lead	3.1		0.26	0.077	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Magnesium	100000	B	52	11	mg/Kg	☼	07/28/13 17:00	08/13/13 07:41	10
Manganese	130	B	0.52	0.028	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Nickel	6.5		0.52	0.051	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Potassium	780	B	26	1.6	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Selenium	0.23	J	0.52	0.18	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Sodium	380		52	7.0	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Thallium	<0.52		0.52	0.22	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Vanadium	4.6		0.26	0.038	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1
Zinc	9.2	B	1.0	0.21	mg/Kg	☼	07/28/13 17:00	08/07/13 22:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.39	J	0.50	0.010	mg/L		07/30/13 10:30	08/07/13 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 18:12	1
Boron	0.70		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 18:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-7

Client Sample ID: 846D-136-B08

Lab Sample ID: 500-59862-17

Date Collected: 07/25/13 11:20

Matrix: Solid

Date Received: 07/26/13 06:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 18:12	1
Chromium	<0.025		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:12	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 18:12	1
Iron	0.63		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 18:12	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 18:12	1
Manganese	0.018 J		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:12	1
Nickel	<0.025		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:12	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 18:12	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 18:12	1
Zinc	0.31		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 18:12	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 16:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 16:00	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 12:07	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0080	mg/Kg	☆	07/30/13 17:45	07/31/13 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.99		0.200	0.200	SU			08/08/13 17:36	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-7

Qualifiers

GC/MS Semi VOA

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

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.

Glossary

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



CHAIN OF CUSTODY RECORD

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

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: USG IL7 Will County, IL
 Project No.: JOBT 2013-022
 TAT: 15 BD 10 BD 5 BD 2 BD Other
 Sampler: AEI

COC No.: _____ of _____
 Lab Job No.: 500-59862
 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.

Matrix Key:
 W: Water
 S: Soil
 SL: Sludge
 S: Sediment
 L: Leachate
 DW: Drinking Water
 OL: Oil
 O: Other

ANALYSES		PCBs	* Total Metals	SPLP** TCLP Metals	pH	% Solids	Waste Characterization
VOCs	X						
SVOCs	X						
BETX & MTBF							
PNAs							
Pesticides							
Pesticides							

Lab ID	Sample ID	Sample Date	Sample Time	Matrix
17	846D-136-008	7/25/13	11:20A	S

Relinquished by: Daniel J. Mackinson (AEI) Date/Time: 7/25/13 4:15 PM Received by: [Signature] Date/Time: 7/25/13 1615

Relinquished by: [Signature] Date/Time: 7/25/13 1700 Received by: [Signature] Date/Time: 7/26/13 0600

Relinquished by: [Signature] Date/Time: _____ Received by: [Signature] 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: 500-75284-2
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
4/30/2014 3:01:08 PM

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

LINKS

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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 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-2

Client Sample ID: 846D-136-B10

Lab Sample ID: 500-75284-7

Date Collected: 04/17/14 10:05

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012		0.0049	0.0021	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
2-Butanone (MEK)	0.0037	J	0.0049	0.0018	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1
Xylenes, Total	<0.0098		0.0098	0.00045	mg/Kg	☼	04/17/14 16:15	04/22/14 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	04/17/14 16:15	04/22/14 02:51	1
Dibromofluoromethane	108		75 - 120	04/17/14 16:15	04/22/14 02:51	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	04/17/14 16:15	04/22/14 02:51	1
Toluene-d8 (Surr)	103		75 - 122	04/17/14 16:15	04/22/14 02:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-2

Client Sample ID: 846D-136-B10

Lab Sample ID: 500-75284-7

Date Collected: 04/17/14 10:05

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-2

Client Sample ID: 846D-136-B10

Lab Sample ID: 500-75284-7

Date Collected: 04/17/14 10:05

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Di-n-octyl phthalate	0.11	J	0.20	0.065	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	04/23/14 19:42	04/29/14 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		25 - 110	04/23/14 19:42	04/29/14 15:40	1
Phenol-d5	43		31 - 110	04/23/14 19:42	04/29/14 15:40	1
Nitrobenzene-d5	39		25 - 115	04/23/14 19:42	04/29/14 15:40	1
2-Fluorobiphenyl	39		25 - 119	04/23/14 19:42	04/29/14 15:40	1
2,4,6-Tribromophenol	32	X	35 - 137	04/23/14 19:42	04/29/14 15:40	1
Terphenyl-d14	57		36 - 134	04/23/14 19:42	04/29/14 15:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Arsenic	9.1		0.59	0.12	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Barium	65		0.59	0.063	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Beryllium	0.68		0.24	0.047	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Boron	5.8		3.0	0.59	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Cadmium	0.17		0.12	0.015	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Calcium	2600	B ^	12	3.2	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Chromium	18		0.59	0.069	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Cobalt	15		0.30	0.059	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Copper	18		0.59	0.12	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Iron	23000		12	4.9	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Lead	18		0.30	0.088	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Magnesium	4000	^	5.9	1.2	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Manganese	470		0.59	0.12	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Nickel	30		0.59	0.12	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Potassium	1700		30	1.8	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Selenium	0.86		0.59	0.21	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Sodium	440		59	7.9	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Thallium	0.29	J	0.59	0.25	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Vanadium	25	B	0.30	0.044	mg/Kg	☼	04/18/14 16:00	04/22/14 20:57	1
Zinc	76		1.2	0.24	mg/Kg	☼	04/18/14 16:00	04/23/14 23:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.23	J B	0.50	0.050	mg/L		04/21/14 09:15	04/21/14 20:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 09:15	04/21/14 20:07	1
Boron	1.5	B	0.10	0.050	mg/L		04/24/14 09:15	04/24/14 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-2

Client Sample ID: 846D-136-B10

Lab Sample ID: 500-75284-7

Date Collected: 04/17/14 10:05

Matrix: Solid

Date Received: 04/17/14 12:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 09:15	04/21/14 20:07	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 20:07	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 20:07	1
Iron	3.2	B	0.20	0.20	mg/L		04/21/14 09:15	04/21/14 20:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 09:15	04/21/14 20:07	1
Manganese	0.089		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 20:07	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 20:07	1
Selenium	0.011	J	0.050	0.010	mg/L		04/21/14 09:15	04/21/14 20:07	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 20:07	1
Zinc	0.25		0.10	0.020	mg/L		04/24/14 09:15	04/24/14 19:40	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/21/14 09:15	04/21/14 17:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 09:15	04/21/14 17:02	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		04/21/14 16:00	04/22/14 09:30	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.020	0.0077	mg/Kg	☆	04/22/14 13:25	04/23/14 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.42		0.200	0.200	SU			04/28/14 13:35	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-2

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.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F3	Duplicate RPD exceeds the control limit
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Glossary

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



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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
10810 to 10970 W 159th St.

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.60084 Longitude: -87.88484
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 351 (U.S. 6/IL 7)

Latitude: 41.60084 Longitude: -87.88484

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 846D-137-B01 THRU -B05 WERE SAMPLED ADJACENT TO SITE No. 846D-137. SEE FIGURE 6, FIGURE 7 AND TABLE 3q OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59941-5

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

I, Steven Gobelman (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: Illinois Department of Transportation, Bureau of Design and Environment

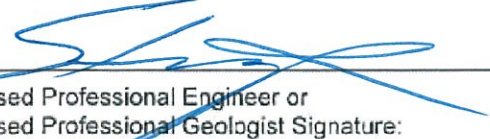
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

9/20/19
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-137
Vacant Area**

Sample ID	846D-137-B01	846D-137-B02	846D-137-B03							
Sample Depth (ft)	0-2	0-2	0-1							
Sample Date	7/26/2013	7/26/2013	7/26/2013							
PID	0	0	0							
Sample pH	7.63	7.21	7.47							
Matrix	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)										
Benzo(a)pyrene	0.27	1.2	J 0.018							
		J 0.074								
			0.09							
				0.09						
					0.98					
						1.3				
							2.1			
								2.1		
									NA	

Sample ID	846D-137-B04	846D-137-B04 DUP	846D-137-B05							
Sample Depth (ft)	0-1	0-1	0-1							
Sample Date	7/26/2013	7/26/2013	7/26/2013							
PID	0	0	0							
Sample pH	6.41	7.15	8.77							
Matrix	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)										
Benzo(a)pyrene	J 0.01	J 0.036	J 0.12	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: 500-59941-5
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/21/2013 4:38:33 PM

Richard Wright, Project Manager II
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 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B01

Lab Sample ID: 500-59941-25

Date Collected: 07/26/13 11:00

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0069		0.0069	0.0030	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Benzene	<0.0069		0.0069	0.00095	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Bromodichloromethane	<0.0069		0.0069	0.0012	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Bromoform	<0.0069		0.0069	0.0016	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Bromomethane	<0.0069		0.0069	0.0021	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
2-Butanone (MEK)	<0.0069		0.0069	0.0025	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Carbon disulfide	<0.0069		0.0069	0.0010	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Carbon tetrachloride	<0.0069		0.0069	0.0013	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Chlorobenzene	<0.0069		0.0069	0.00070	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Chloroethane	<0.0069		0.0069	0.0019	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Chloroform	<0.0069		0.0069	0.00080	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Chloromethane	<0.0069		0.0069	0.0015	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
cis-1,2-Dichloroethene	<0.0069		0.0069	0.00098	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
cis-1,3-Dichloropropene	<0.0069		0.0069	0.00091	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Dibromochloromethane	<0.0069		0.0069	0.0012	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
1,1-Dichloroethane	<0.0069		0.0069	0.0011	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
1,2-Dichloroethane	<0.0069		0.0069	0.0010	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
1,1-Dichloroethene	<0.0069		0.0069	0.0011	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
1,2-Dichloropropane	<0.0069		0.0069	0.0011	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
1,3-Dichloropropene, Total	<0.0069		0.0069	0.00091	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Ethylbenzene	<0.0069		0.0069	0.0014	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
2-Hexanone	<0.0069		0.0069	0.0020	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Methylene Chloride	<0.0069		0.0069	0.0019	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
4-Methyl-2-pentanone (MIBK)	<0.0069		0.0069	0.0018	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Methyl tert-butyl ether	<0.0069		0.0069	0.0011	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Styrene	<0.0069		0.0069	0.00091	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
1,1,2,2-Tetrachloroethane	<0.0069		0.0069	0.0014	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Tetrachloroethene	<0.0069		0.0069	0.0011	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Toluene	<0.0069		0.0069	0.00097	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
trans-1,2-Dichloroethene	<0.0069		0.0069	0.00095	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
trans-1,3-Dichloropropene	<0.0069		0.0069	0.0012	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
1,1,1-Trichloroethane	<0.0069		0.0069	0.0010	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
1,1,2-Trichloroethane	<0.0069		0.0069	0.00095	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Trichloroethene	<0.0069		0.0069	0.0011	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Vinyl acetate	<0.0069		0.0069	0.0011	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Vinyl chloride	<0.0069		0.0069	0.0015	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1
Xylenes, Total	<0.014		0.014	0.00063	mg/Kg	☼	07/26/13 11:00	08/02/13 07:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	07/26/13 11:00	08/02/13 07:26	1
Dibromofluoromethane	104		75 - 120	07/26/13 11:00	08/02/13 07:26	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	07/26/13 11:00	08/02/13 07:26	1
Toluene-d8 (Surr)	92		75 - 122	07/26/13 11:00	08/02/13 07:26	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	☼	08/07/13 07:10	08/13/13 22:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B01

Lab Sample ID: 500-59941-25

Date Collected: 07/26/13 11:00

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Naphthalene	0.0091	J	0.038	0.0073	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Acenaphthene	0.055		0.038	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Fluorene	0.064		0.038	0.0087	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Phenanthrene	0.56		0.038	0.016	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Anthracene	0.14		0.038	0.0090	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Carbazole	0.11	J	0.19	0.054	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Fluoranthene	0.83		0.038	0.016	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Pyrene	0.74		0.038	0.014	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Benzo[a]anthracene	0.35		0.038	0.0080	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B01

Lab Sample ID: 500-59941-25

Date Collected: 07/26/13 11:00

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.34		0.038	0.0086	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Benzo[b]fluoranthene	0.48		0.038	0.0074	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Benzo[k]fluoranthene	0.20		0.038	0.0091	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Benzo[a]pyrene	0.27		0.038	0.0069	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Indeno[1,2,3-cd]pyrene	0.080		0.038	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Dibenz(a,h)anthracene	0.036	J	0.038	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
Benzo[g,h,i]perylene	0.085		0.038	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/07/13 07:10	08/13/13 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	24	X	30 - 110	08/07/13 07:10	08/13/13 22:48	1
Phenol-d5	29	X	31 - 110	08/07/13 07:10	08/13/13 22:48	1
Nitrobenzene-d5	24	X	30 - 115	08/07/13 07:10	08/13/13 22:48	1
2-Fluorobiphenyl	31		30 - 119	08/07/13 07:10	08/13/13 22:48	1
2,4,6-Tribromophenol	38		35 - 137	08/07/13 07:10	08/13/13 22:48	1
Terphenyl-d14	42		36 - 134	08/07/13 07:10	08/13/13 22:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Arsenic	6.3		0.57	0.11	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Barium	92		0.57	0.061	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Beryllium	0.69		0.23	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Boron	6.4		2.9	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Cadmium	0.64		0.11	0.015	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Calcium	7700	B	11	3.1	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Chromium	17		0.57	0.067	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Cobalt	9.1	B	0.29	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Copper	21		0.57	0.051	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Iron	17000		11	4.7	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Lead	38		0.29	0.086	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Magnesium	4900	B	5.7	1.2	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Manganese	440	B	0.57	0.031	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Nickel	18	B	0.57	0.056	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Potassium	2000	B	29	1.7	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Selenium	0.46	J	0.57	0.20	mg/Kg	☼	07/30/13 10:14	08/17/13 15:38	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Sodium	1100		57	7.7	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Thallium	0.29	J	0.57	0.24	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Vanadium	23	B	0.29	0.042	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1
Zinc	64		1.1	0.23	mg/Kg	☼	07/30/13 10:14	08/13/13 09:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.40		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 12:03	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 12:03	1
Manganese	0.061		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 12:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B01

Lab Sample ID: 500-59941-25

Date Collected: 07/26/13 11:00

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.86		0.50	0.010	mg/L		08/04/13 07:45	08/13/13 00:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/13/13 00:09	1
Boron	0.96		0.10	0.050	mg/L		08/04/13 07:45	08/13/13 00:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/13/13 00:09	1
Chromium	0.085		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:09	1
Cobalt	0.016	J	0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:09	1
Iron	61		0.20	0.20	mg/L		08/04/13 07:45	08/13/13 00:09	1
Lead	0.083		0.0075	0.0050	mg/L		08/04/13 07:45	08/13/13 00:09	1
Manganese	0.34		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:09	1
Nickel	0.059		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:09	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/13/13 00:09	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:09	1
Zinc	0.67		0.10	0.020	mg/L		08/04/13 07:45	08/13/13 00:09	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:58	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000083	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:32	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.019	0.0089	mg/Kg	✱	07/31/13 17:30	08/01/13 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.63		0.200	0.200	SU			08/09/13 12:49	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B02

Lab Sample ID: 500-59941-26

Date Collected: 07/26/13 10:55

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 87.5

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	☼	07/26/13 10:55	08/03/13 01:08	1
Benzene	<0.0058		0.0058	0.00079	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Bromodichloromethane	<0.0058		0.0058	0.00099	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Bromoform	<0.0058		0.0058	0.0013	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Bromomethane	<0.0058		0.0058	0.0017	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
2-Butanone (MEK)	<0.0058		0.0058	0.0021	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Carbon disulfide	<0.0058		0.0058	0.00086	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Carbon tetrachloride	<0.0058		0.0058	0.0010	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Chlorobenzene	<0.0058		0.0058	0.00058	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Chloroethane	<0.0058		0.0058	0.0016	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Chloroform	<0.0058		0.0058	0.00066	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Chloromethane	<0.0058		0.0058	0.0012	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
cis-1,2-Dichloroethene	<0.0058		0.0058	0.00081	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
cis-1,3-Dichloropropene	<0.0058		0.0058	0.00076	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Dibromochloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
1,1-Dichloroethane	<0.0058		0.0058	0.00091	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
1,2-Dichloroethane	<0.0058		0.0058	0.00085	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
1,1-Dichloroethene	<0.0058		0.0058	0.00093	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
1,2-Dichloropropane	<0.0058		0.0058	0.00087	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
1,3-Dichloropropene, Total	<0.0058		0.0058	0.00076	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Ethylbenzene	<0.0058		0.0058	0.0012	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
2-Hexanone	<0.0058		0.0058	0.0017	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Methylene Chloride	<0.0058		0.0058	0.0016	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0015	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Methyl tert-butyl ether	<0.0058		0.0058	0.00095	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Styrene	<0.0058		0.0058	0.00076	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
1,1,1,2-Tetrachloroethane	<0.0058		0.0058	0.0012	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Tetrachloroethene	<0.0058		0.0058	0.00088	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Toluene	<0.0058		0.0058	0.00081	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
trans-1,2-Dichloroethene	<0.0058		0.0058	0.00079	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
trans-1,3-Dichloropropene	<0.0058		0.0058	0.0010	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
1,1,1-Trichloroethane	<0.0058		0.0058	0.00086	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
1,1,2-Trichloroethane	<0.0058		0.0058	0.00079	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Trichloroethene	<0.0058		0.0058	0.00095	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Vinyl acetate	<0.0058		0.0058	0.00091	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Vinyl chloride	<0.0058		0.0058	0.0012	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1
Xylenes, Total	<0.012		0.012	0.00052	mg/Kg	☼	07/26/13 10:55	08/03/13 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	07/26/13 10:55	08/03/13 01:08	1
Dibromofluoromethane	105		75 - 120	07/26/13 10:55	08/03/13 01:08	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	07/26/13 10:55	08/03/13 01:08	1
Toluene-d8 (Surr)	95		75 - 122	07/26/13 10:55	08/03/13 01:08	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	☼	08/07/13 07:10	08/17/13 17:49	5
Bis(2-chloroethyl)ether	<0.92		0.92	0.27	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
1,3-Dichlorobenzene	<0.92		0.92	0.19	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
1,4-Dichlorobenzene	<0.92		0.92	0.19	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B02

Lab Sample ID: 500-59941-26

Date Collected: 07/26/13 10:55

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.92		0.92	0.20	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
2-Methylphenol	<0.92		0.92	0.24	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
2,2'-oxybis[1-chloropropane]	<0.92		0.92	0.20	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
N-Nitrosodi-n-propylamine	<0.92		0.92	0.23	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Hexachloroethane	<0.92		0.92	0.20	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
2-Chlorophenol	<0.92		0.92	0.26	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Nitrobenzene	<0.18		0.18	0.057	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Bis(2-chloroethoxy)methane	<0.92		0.92	0.20	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
1,2,4-Trichlorobenzene	<0.92		0.92	0.21	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Isophorone	<0.92		0.92	0.20	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
2,4-Dimethylphenol	<1.8		1.8	0.58	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Hexachlorobutadiene	<0.92		0.92	0.24	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Naphthalene	<0.18		0.18	0.035	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
2,4-Dichlorophenol	<1.8		1.8	0.56	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
4-Chloroaniline	<3.7		3.7	0.56	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
2,4,6-Trichlorophenol	<1.8		1.8	0.23	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
2,4,5-Trichlorophenol	<1.8		1.8	0.53	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Hexachlorocyclopentadiene	<3.7		3.7	0.85	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
2-Methylnaphthalene	<0.92		0.92	0.24	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
2-Nitroaniline	<0.92		0.92	0.33	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
2-Chloronaphthalene	<0.92		0.92	0.21	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
4-Chloro-3-methylphenol	<1.8		1.8	0.88	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
2,6-Dinitrotoluene	<0.92		0.92	0.22	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
2-Nitrophenol	<1.8		1.8	0.29	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
3-Nitroaniline	<1.8		1.8	0.35	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Dimethyl phthalate	<0.92		0.92	0.23	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
2,4-Dinitrophenol	<3.7		3.7	0.94	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Acenaphthylene	<0.18		0.18	0.042	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
2,4-Dinitrotoluene	<0.92		0.92	0.28	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Acenaphthene	<0.18		0.18	0.055	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Dibenzofuran	<0.92		0.92	0.22	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
4-Nitrophenol	<3.7		3.7	0.99	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Fluorene	<0.18		0.18	0.042	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
4-Nitroaniline	<1.8		1.8	0.38	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
4-Bromophenyl phenyl ether	<0.92		0.92	0.21	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Hexachlorobenzene	<0.37		0.37	0.036	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Diethyl phthalate	<0.92		0.92	0.31	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
4-Chlorophenyl phenyl ether	<0.92		0.92	0.29	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Pentachlorophenol	<3.7		3.7	0.94	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
N-Nitrosodiphenylamine	<0.92		0.92	0.25	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
4,6-Dinitro-2-methylphenol	<1.8		1.8	0.45	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Phenanthrene	<0.18		0.18	0.077	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Anthracene	<0.18		0.18	0.043	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Carbazole	<0.92		0.92	0.26	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Di-n-butyl phthalate	<0.92		0.92	0.23	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Fluoranthene	0.090	J	0.18	0.075	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Pyrene	0.080	J	0.18	0.066	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Butyl benzyl phthalate	<0.92		0.92	0.23	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Benzo[a]anthracene	0.055	J	0.18	0.039	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B02

Lab Sample ID: 500-59941-26

Date Collected: 07/26/13 10:55

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.068	J	0.18	0.042	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
3,3'-Dichlorobenzidine	<0.92		0.92	0.15	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Bis(2-ethylhexyl) phthalate	<0.92		0.92	0.24	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Di-n-octyl phthalate	<0.92		0.92	0.37	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Benzo[b]fluoranthene	0.093	J	0.18	0.036	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Benzo[k]fluoranthene	0.053	J	0.18	0.044	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Benzo[a]pyrene	0.074	J	0.18	0.033	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Indeno[1,2,3-cd]pyrene	0.063	J	0.18	0.062	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Dibenz(a,h)anthracene	<0.18		0.18	0.051	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
Benzo[g,h,i]perylene	0.088	J	0.18	0.062	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5
3 & 4 Methylphenol	<0.92		0.92	0.35	mg/Kg	☼	08/07/13 07:10	08/17/13 17:49	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		30 - 110	08/07/13 07:10	08/17/13 17:49	5
Phenol-d5	51		31 - 110	08/07/13 07:10	08/17/13 17:49	5
Nitrobenzene-d5	43		30 - 115	08/07/13 07:10	08/17/13 17:49	5
2-Fluorobiphenyl	52		30 - 119	08/07/13 07:10	08/17/13 17:49	5
2,4,6-Tribromophenol	63		35 - 137	08/07/13 07:10	08/17/13 17:49	5
Terphenyl-d14	60		36 - 134	08/07/13 07:10	08/17/13 17:49	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Arsenic	6.0		0.56	0.11	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Barium	85		0.56	0.060	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Beryllium	0.62		0.22	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Boron	5.3		2.8	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Cadmium	0.58		0.11	0.014	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Calcium	22000	B	11	3.0	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Chromium	21		0.56	0.065	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Cobalt	7.4	B	0.28	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Copper	15		0.56	0.050	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Iron	17000		11	4.6	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Lead	46		0.28	0.083	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Magnesium	14000	B	5.6	1.2	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Manganese	520	B	0.56	0.030	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Nickel	15	B	0.56	0.055	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Potassium	1800	B	28	1.7	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/30/13 10:14	08/17/13 15:44	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Sodium	750		56	7.5	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Thallium	0.35	J	0.56	0.24	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Vanadium	28	B	0.28	0.041	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1
Zinc	49		1.1	0.23	mg/Kg	☼	07/30/13 10:14	08/13/13 09:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 12:24	1
Lead	0.0058	J	0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 12:24	1
Manganese	0.39		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 12:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B02

Lab Sample ID: 500-59941-26

Date Collected: 07/26/13 10:55

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.83		0.50	0.010	mg/L		08/04/13 07:45	08/13/13 00:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/13/13 00:15	1
Boron	1.1		0.10	0.050	mg/L		08/04/13 07:45	08/13/13 00:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/13/13 00:15	1
Chromium	0.052		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:15	1
Cobalt	0.011	J	0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:15	1
Iron	39		0.20	0.20	mg/L		08/04/13 07:45	08/13/13 00:15	1
Lead	0.034		0.0075	0.0050	mg/L		08/04/13 07:45	08/13/13 00:15	1
Manganese	0.31		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:15	1
Nickel	0.039		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:15	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/13/13 00:15	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:15	1
Zinc	0.60		0.10	0.020	mg/L		08/04/13 07:45	08/13/13 00:15	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:58	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000044	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:34	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.018	0.0083	mg/Kg	☆	07/31/13 17:30	08/01/13 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.21		0.200	0.200	SU			08/09/13 12:51	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B03

Lab Sample ID: 500-59941-27

Date Collected: 07/26/13 10:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 84.6

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	☼	07/26/13 10:30	08/03/13 01:30	1
Benzene	<0.0058		0.0058	0.00080	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Bromodichloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Bromoform	<0.0058		0.0058	0.0013	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Bromomethane	<0.0058		0.0058	0.0018	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
2-Butanone (MEK)	<0.0058		0.0058	0.0021	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Carbon disulfide	<0.0058		0.0058	0.00087	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Carbon tetrachloride	<0.0058		0.0058	0.0011	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Chlorobenzene	<0.0058		0.0058	0.00059	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Chloroethane	<0.0058		0.0058	0.0016	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Chloroform	<0.0058		0.0058	0.00067	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Chloromethane	<0.0058		0.0058	0.0012	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
cis-1,2-Dichloroethene	<0.0058		0.0058	0.00082	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
cis-1,3-Dichloropropene	<0.0058		0.0058	0.00076	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Dibromochloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
1,1-Dichloroethane	<0.0058		0.0058	0.00092	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
1,2-Dichloroethane	<0.0058		0.0058	0.00086	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
1,1-Dichloroethene	<0.0058		0.0058	0.00094	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
1,2-Dichloropropane	<0.0058		0.0058	0.00088	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
1,3-Dichloropropene, Total	<0.0058		0.0058	0.00076	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Ethylbenzene	<0.0058		0.0058	0.0012	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
2-Hexanone	<0.0058		0.0058	0.0017	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Methylene Chloride	<0.0058		0.0058	0.0016	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0015	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Methyl tert-butyl ether	<0.0058		0.0058	0.00096	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Styrene	<0.0058		0.0058	0.00076	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
1,1,1,2-Tetrachloroethane	<0.0058		0.0058	0.0012	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Tetrachloroethene	<0.0058		0.0058	0.00089	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Toluene	<0.0058		0.0058	0.00081	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
trans-1,2-Dichloroethene	<0.0058		0.0058	0.00080	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
trans-1,3-Dichloropropene	<0.0058		0.0058	0.0010	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
1,1,1-Trichloroethane	<0.0058		0.0058	0.00087	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
1,1,2-Trichloroethane	<0.0058		0.0058	0.00079	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Trichloroethene	<0.0058		0.0058	0.00096	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Vinyl acetate	<0.0058		0.0058	0.00091	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Vinyl chloride	<0.0058		0.0058	0.0012	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1
Xylenes, Total	<0.012		0.012	0.00053	mg/Kg	☼	07/26/13 10:30	08/03/13 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	07/26/13 10:30	08/03/13 01:30	1
Dibromofluoromethane	103		75 - 120	07/26/13 10:30	08/03/13 01:30	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	07/26/13 10:30	08/03/13 01:30	1
Toluene-d8 (Surr)	95		75 - 122	07/26/13 10:30	08/03/13 01:30	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	☼	08/07/13 07:10	08/13/13 15:11	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B03

Lab Sample ID: 500-59941-27

Date Collected: 07/26/13 10:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Fluoranthene	0.028	J	0.038	0.016	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Pyrene	0.027	J	0.038	0.014	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Benzo[a]anthracene	0.014	J	0.038	0.0079	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B03

Lab Sample ID: 500-59941-27

Date Collected: 07/26/13 10:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.038	0.0086	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Benzo[b]fluoranthene	0.026	J	0.038	0.0074	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Benzo[a]pyrene	0.018	J	0.038	0.0069	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.038	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/07/13 07:10	08/13/13 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	41		30 - 110				08/07/13 07:10	08/13/13 15:11	1
Phenol-d5	46		31 - 110				08/07/13 07:10	08/13/13 15:11	1
Nitrobenzene-d5	40		30 - 115				08/07/13 07:10	08/13/13 15:11	1
2-Fluorobiphenyl	48		30 - 119				08/07/13 07:10	08/13/13 15:11	1
2,4,6-Tribromophenol	60		35 - 137				08/07/13 07:10	08/13/13 15:11	1
Terphenyl-d14	65		36 - 134				08/07/13 07:10	08/13/13 15:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Arsenic	7.5		0.57	0.11	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Barium	140		0.57	0.061	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Beryllium	0.76		0.23	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Boron	4.7		2.9	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Cadmium	0.53		0.11	0.015	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Calcium	3800	B	11	3.1	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Chromium	17		0.57	0.066	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Cobalt	15	B	0.29	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Copper	15		0.57	0.051	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Iron	20000		11	4.7	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Lead	26		0.29	0.085	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Magnesium	2800	B	5.7	1.2	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Manganese	1400		5.7	0.31	mg/Kg	☼	07/30/13 10:14	08/17/13 15:57	10
Nickel	18	B	0.57	0.056	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Potassium	1800	B	29	1.7	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Selenium	0.63		0.57	0.20	mg/Kg	☼	07/30/13 10:14	08/17/13 15:51	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Sodium	790		57	7.7	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Thallium	0.56	J	0.57	0.24	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Vanadium	27	B	0.29	0.042	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1
Zinc	59		1.1	0.23	mg/Kg	☼	07/30/13 10:14	08/13/13 09:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/13 12:00	08/21/13 12:31	1
Chromium	<0.025		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 12:31	1
Iron	0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 12:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B03

Lab Sample ID: 500-59941-27

Date Collected: 07/26/13 10:30

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 12:31	1
Manganese	0.13		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.99		0.50	0.010	mg/L		08/04/13 07:45	08/13/13 00:21	1
Beryllium	0.0042		0.0040	0.0040	mg/L		08/04/13 07:45	08/13/13 00:21	1
Boron	0.82		0.10	0.050	mg/L		08/04/13 07:45	08/13/13 00:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/13/13 00:21	1
Chromium	0.11		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:21	1
Cobalt	0.014	J	0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:21	1
Iron	83		0.20	0.20	mg/L		08/04/13 07:45	08/13/13 00:21	1
Lead	0.038		0.0075	0.0050	mg/L		08/04/13 07:45	08/13/13 00:21	1
Manganese	0.41		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:21	1
Nickel	0.069		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:21	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/13/13 00:21	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:21	1
Zinc	0.65		0.10	0.020	mg/L		08/04/13 07:45	08/13/13 00:21	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 16:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 16:59	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:36	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.017	0.0081	mg/Kg	☼	07/31/13 17:30	08/01/13 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.47		0.200	0.200	SU			08/09/13 12:53	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B04

Lab Sample ID: 500-59941-28

Date Collected: 07/26/13 10:20

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 86.7

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	☼	07/26/13 10:20	08/03/13 01:53	1
Benzene	<0.0057		0.0057	0.00078	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Bromodichloromethane	<0.0057		0.0057	0.00098	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Bromoform	<0.0057		0.0057	0.0013	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Bromomethane	<0.0057		0.0057	0.0017	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
2-Butanone (MEK)	<0.0057		0.0057	0.0021	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Carbon disulfide	<0.0057		0.0057	0.00085	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Carbon tetrachloride	<0.0057		0.0057	0.0010	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Chlorobenzene	<0.0057		0.0057	0.00058	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Chloroethane	<0.0057		0.0057	0.0016	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Chloroform	<0.0057		0.0057	0.00066	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Chloromethane	<0.0057		0.0057	0.0012	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.00081	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.00075	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Dibromochloromethane	<0.0057		0.0057	0.00099	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
1,1-Dichloroethane	<0.0057		0.0057	0.00090	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
1,2-Dichloroethane	<0.0057		0.0057	0.00085	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
1,1-Dichloroethene	<0.0057		0.0057	0.00092	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
1,2-Dichloropropane	<0.0057		0.0057	0.00087	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
1,3-Dichloropropene, Total	<0.0057		0.0057	0.00075	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Ethylbenzene	<0.0057		0.0057	0.0012	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
2-Hexanone	<0.0057		0.0057	0.0016	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Methylene Chloride	<0.0057		0.0057	0.0015	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0015	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Methyl tert-butyl ether	<0.0057		0.0057	0.00094	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Styrene	<0.0057		0.0057	0.00075	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
1,1,1,2-Tetrachloroethane	<0.0057		0.0057	0.0012	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Tetrachloroethene	<0.0057		0.0057	0.00087	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Toluene	<0.0057		0.0057	0.00080	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.00079	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.0010	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.00085	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.00078	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Trichloroethene	<0.0057		0.0057	0.00094	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Vinyl acetate	<0.0057		0.0057	0.00090	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Vinyl chloride	<0.0057		0.0057	0.0012	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1
Xylenes, Total	<0.011		0.011	0.00052	mg/Kg	☼	07/26/13 10:20	08/03/13 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	07/26/13 10:20	08/03/13 01:53	1
Dibromofluoromethane	103		75 - 120	07/26/13 10:20	08/03/13 01:53	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	07/26/13 10:20	08/03/13 01:53	1
Toluene-d8 (Surr)	94		75 - 122	07/26/13 10:20	08/03/13 01:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B04

Lab Sample ID: 500-59941-28

Date Collected: 07/26/13 10:20

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
4-Nitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B04

Lab Sample ID: 500-59941-28

Date Collected: 07/26/13 10:20

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Benzo[b]fluoranthene	0.010	J	0.038	0.0074	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Benzo[a]pyrene	0.010	J	0.038	0.0069	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/07/13 07:10	08/13/13 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		30 - 110	08/07/13 07:10	08/13/13 15:32	1
Phenol-d5	51		31 - 110	08/07/13 07:10	08/13/13 15:32	1
Nitrobenzene-d5	49		30 - 115	08/07/13 07:10	08/13/13 15:32	1
2-Fluorobiphenyl	55		30 - 119	08/07/13 07:10	08/13/13 15:32	1
2,4,6-Tribromophenol	70		35 - 137	08/07/13 07:10	08/13/13 15:32	1
Terphenyl-d14	80		36 - 134	08/07/13 07:10	08/13/13 15:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Arsenic	6.2		0.57	0.11	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Barium	90		0.57	0.061	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Beryllium	0.91		0.23	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Boron	5.0		2.9	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Cadmium	0.29		0.11	0.015	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Calcium	1900	B	11	3.1	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Chromium	24		0.57	0.067	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Cobalt	12	B	0.29	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Copper	15		0.57	0.051	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Iron	23000		11	4.7	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Lead	13		0.29	0.085	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Magnesium	4500	B	5.7	1.2	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Manganese	320	B	0.57	0.031	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Nickel	25	B	0.57	0.056	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Potassium	1900	B	29	1.7	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Selenium	0.35	J	0.57	0.20	mg/Kg	☼	07/30/13 10:14	08/17/13 16:18	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Sodium	670		57	7.7	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Thallium	0.31	J	0.57	0.24	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Vanadium	31	B	0.29	0.042	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1
Zinc	41		1.1	0.23	mg/Kg	☼	07/30/13 10:14	08/13/13 09:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/13 12:00	08/21/13 12:37	1
Chromium	<0.025		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 12:37	1
Iron	0.55		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 12:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B04

Lab Sample ID: 500-59941-28

Date Collected: 07/26/13 10:20

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0056	J	0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 12:37	1
Manganese	0.034		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.0		0.50	0.010	mg/L		08/04/13 07:45	08/13/13 00:28	1
Beryllium	0.0042		0.0040	0.0040	mg/L		08/04/13 07:45	08/13/13 00:28	1
Boron	1.2		0.10	0.050	mg/L		08/04/13 07:45	08/13/13 00:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/13/13 00:28	1
Chromium	0.10		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:28	1
Cobalt	0.019	J	0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:28	1
Iron	79		0.20	0.20	mg/L		08/04/13 07:45	08/13/13 00:28	1
Lead	0.024		0.0075	0.0050	mg/L		08/04/13 07:45	08/13/13 00:28	1
Manganese	0.27		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:28	1
Nickel	0.085		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:28	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/13/13 00:28	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:28	1
Zinc	0.68		0.10	0.020	mg/L		08/04/13 07:45	08/13/13 00:28	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 17:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 17:00	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000043	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:38	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.017	0.0081	mg/Kg	☼	07/31/13 17:30	08/01/13 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.41		0.200	0.200	SU			08/09/13 12:55	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B04 Dup

Lab Sample ID: 500-59941-29

Date Collected: 07/26/13 10:25

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0046		0.0046	0.0020	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Dibromochloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
1,1,1-Dichloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00075	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	07/26/13 10:25	08/03/13 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	07/26/13 10:25	08/03/13 02:16	1
Dibromofluoromethane	108		75 - 120	07/26/13 10:25	08/03/13 02:16	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/26/13 10:25	08/03/13 02:16	1
Toluene-d8 (Surr)	96		75 - 122	07/26/13 10:25	08/03/13 02:16	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	☼	08/07/13 07:10	08/14/13 16:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B04 Dup

Lab Sample ID: 500-59941-29

Date Collected: 07/26/13 10:25

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Phenanthrene	0.025	J	0.039	0.017	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Fluoranthene	0.066		0.039	0.016	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Pyrene	0.064		0.039	0.014	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Benzo[a]anthracene	0.030	J	0.039	0.0083	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B04 Dup

Lab Sample ID: 500-59941-29

Date Collected: 07/26/13 10:25

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.041		0.039	0.0089	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Benzo[b]fluoranthene	0.059		0.039	0.0077	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Benzo[k]fluoranthene	0.024 J		0.039	0.0094	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Benzo[a]pyrene	0.036 J		0.039	0.0072	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Indeno[1,2,3-cd]pyrene	0.026 J		0.039	0.013	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Dibenz(a,h)anthracene	0.011 J		0.039	0.011	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
Benzo[g,h,i]perylene	0.025 J		0.039	0.013	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	08/07/13 07:10	08/14/13 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		30 - 110	08/07/13 07:10	08/14/13 16:42	1
Phenol-d5	71		31 - 110	08/07/13 07:10	08/14/13 16:42	1
Nitrobenzene-d5	54		30 - 115	08/07/13 07:10	08/14/13 16:42	1
2-Fluorobiphenyl	64		30 - 119	08/07/13 07:10	08/14/13 16:42	1
2,4,6-Tribromophenol	82		35 - 137	08/07/13 07:10	08/14/13 16:42	1
Terphenyl-d14	96		36 - 134	08/07/13 07:10	08/14/13 16:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Arsenic	6.9		0.60	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Barium	110		0.60	0.064	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Beryllium	1.0		0.24	0.021	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Boron	5.7		3.0	0.13	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Cadmium	0.38		0.12	0.015	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Calcium	3400 B		12	3.2	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Chromium	27		0.60	0.069	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Cobalt	9.6 B		0.30	0.021	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Copper	18		0.60	0.053	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Iron	26000		12	4.9	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Lead	12		0.30	0.089	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Magnesium	5900 B		6.0	1.2	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Manganese	300 B		0.60	0.032	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Nickel	29 B		0.60	0.059	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Potassium	2300 B		30	1.8	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	07/30/13 10:14	08/17/13 16:24	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Sodium	840		60	8.0	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Thallium	0.40 J		0.60	0.25	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Vanadium	33 B		0.30	0.044	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1
Zinc	44		1.2	0.24	mg/Kg	☼	07/30/13 10:14	08/13/13 09:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.9		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 12:43	1
Lead	0.0054 J		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 12:43	1
Manganese	0.20		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 12:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B04 Dup

Lab Sample ID: 500-59941-29

Date Collected: 07/26/13 10:25

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.79		0.50	0.010	mg/L		08/04/13 07:45	08/13/13 00:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/13/13 00:34	1
Boron	0.93		0.10	0.050	mg/L		08/04/13 07:45	08/13/13 00:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/13/13 00:34	1
Chromium	0.069		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:34	1
Cobalt	0.012	J	0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:34	1
Iron	51		0.20	0.20	mg/L		08/04/13 07:45	08/13/13 00:34	1
Lead	0.016		0.0075	0.0050	mg/L		08/04/13 07:45	08/13/13 00:34	1
Manganese	0.18		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:34	1
Nickel	0.057		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:34	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/13/13 00:34	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:34	1
Zinc	0.50		0.10	0.020	mg/L		08/04/13 07:45	08/13/13 00:34	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 17:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 17:01	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000027	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:40	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.0091	mg/Kg	☆	07/31/13 17:30	08/01/13 13:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.15		0.200	0.200	SU			08/09/13 13:00	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B05

Lab Sample ID: 500-59941-30

Date Collected: 07/26/13 11:15

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 90.2

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	☼	07/26/13 11:15	08/03/13 02:39	1
Benzene	<0.0057		0.0057	0.00078	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Bromodichloromethane	<0.0057		0.0057	0.00098	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Bromoform	<0.0057		0.0057	0.0013	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Bromomethane	<0.0057		0.0057	0.0017	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
2-Butanone (MEK)	<0.0057		0.0057	0.0021	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Carbon disulfide	<0.0057		0.0057	0.00085	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Carbon tetrachloride	<0.0057		0.0057	0.0010	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Chlorobenzene	<0.0057		0.0057	0.00058	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Chloroethane	<0.0057		0.0057	0.0016	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Chloroform	<0.0057		0.0057	0.00066	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Chloromethane	<0.0057		0.0057	0.0012	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.00081	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.00075	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Dibromochloromethane	<0.0057		0.0057	0.00099	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
1,1-Dichloroethane	<0.0057		0.0057	0.00090	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
1,2-Dichloroethane	<0.0057		0.0057	0.00085	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
1,1-Dichloroethene	<0.0057		0.0057	0.00092	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
1,2-Dichloropropane	<0.0057		0.0057	0.00087	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
1,3-Dichloropropene, Total	<0.0057		0.0057	0.00075	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Ethylbenzene	<0.0057		0.0057	0.0012	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
2-Hexanone	<0.0057		0.0057	0.0016	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Methylene Chloride	<0.0057		0.0057	0.0015	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0015	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Methyl tert-butyl ether	<0.0057		0.0057	0.00094	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Styrene	<0.0057		0.0057	0.00075	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
1,1,1,2-Tetrachloroethane	<0.0057		0.0057	0.0012	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Tetrachloroethene	<0.0057		0.0057	0.00087	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Toluene	<0.0057		0.0057	0.00080	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.00079	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.0010	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.00085	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.00078	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Trichloroethene	<0.0057		0.0057	0.00094	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Vinyl acetate	<0.0057		0.0057	0.00090	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Vinyl chloride	<0.0057		0.0057	0.0012	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1
Xylenes, Total	<0.011		0.011	0.00052	mg/Kg	☼	07/26/13 11:15	08/03/13 02:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	07/26/13 11:15	08/03/13 02:39	1
Dibromofluoromethane	107		75 - 120	07/26/13 11:15	08/03/13 02:39	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	07/26/13 11:15	08/03/13 02:39	1
Toluene-d8 (Surr)	94		75 - 122	07/26/13 11:15	08/03/13 02:39	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	☼	08/07/13 07:10	08/13/13 16:14	5
Bis(2-chloroethyl)ether	<0.89		0.89	0.26	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
1,3-Dichlorobenzene	<0.89		0.89	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
1,4-Dichlorobenzene	<0.89		0.89	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B05

Lab Sample ID: 500-59941-30

Date Collected: 07/26/13 11:15

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.89		0.89	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
2-Methylphenol	<0.89		0.89	0.23	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
2,2'-oxybis[1-chloropropane]	<0.89		0.89	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
N-Nitrosodi-n-propylamine	<0.89		0.89	0.22	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Hexachloroethane	<0.89		0.89	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
2-Chlorophenol	<0.89		0.89	0.25	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Nitrobenzene	<0.18		0.18	0.055	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Bis(2-chloroethoxy)methane	<0.89		0.89	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
1,2,4-Trichlorobenzene	<0.89		0.89	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Isophorone	<0.89		0.89	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
2,4-Dimethylphenol	<1.8		1.8	0.55	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Hexachlorobutadiene	<0.89		0.89	0.23	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Naphthalene	<0.18		0.18	0.034	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
2,4-Dichlorophenol	<1.8		1.8	0.54	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
4-Chloroaniline	<3.6		3.6	0.54	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
2,4,6-Trichlorophenol	<1.8		1.8	0.22	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
2,4,5-Trichlorophenol	<1.8		1.8	0.51	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Hexachlorocyclopentadiene	<3.6		3.6	0.82	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
2-Methylnaphthalene	<0.89		0.89	0.23	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
2-Nitroaniline	<0.89		0.89	0.32	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
2-Chloronaphthalene	<0.89		0.89	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
4-Chloro-3-methylphenol	<1.8		1.8	0.85	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
2,6-Dinitrotoluene	<0.89		0.89	0.21	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
2-Nitrophenol	<1.8		1.8	0.28	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
3-Nitroaniline	<1.8		1.8	0.34	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Dimethyl phthalate	<0.89		0.89	0.22	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
2,4-Dinitrophenol	<3.6		3.6	0.91	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Acenaphthylene	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
2,4-Dinitrotoluene	<0.89		0.89	0.27	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Acenaphthene	<0.18		0.18	0.053	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Dibenzofuran	<0.89		0.89	0.21	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
4-Nitrophenol	<3.6		3.6	0.95	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Fluorene	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
4-Nitroaniline	<1.8		1.8	0.36	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
4-Bromophenyl phenyl ether	<0.89		0.89	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Hexachlorobenzene	<0.36		0.36	0.035	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Diethyl phthalate	<0.89		0.89	0.29	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
4-Chlorophenyl phenyl ether	<0.89		0.89	0.28	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Pentachlorophenol	<3.6		3.6	0.90	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
N-Nitrosodiphenylamine	<0.89		0.89	0.24	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
4,6-Dinitro-2-methylphenol	<1.8		1.8	0.43	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Phenanthrene	0.11	J	0.18	0.074	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Anthracene	<0.18		0.18	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Carbazole	<0.89		0.89	0.25	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Di-n-butyl phthalate	<0.89		0.89	0.22	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Fluoranthene	0.20		0.18	0.072	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Pyrene	0.22		0.18	0.064	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Butyl benzyl phthalate	<0.89		0.89	0.22	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Benzo[a]anthracene	0.094	J	0.18	0.037	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B05

Lab Sample ID: 500-59941-30

Date Collected: 07/26/13 11:15

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.13	J	0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
3,3'-Dichlorobenzidine	<0.89		0.89	0.15	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Bis(2-ethylhexyl) phthalate	<0.89		0.89	0.23	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Di-n-octyl phthalate	<0.89		0.89	0.36	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Benzo[b]fluoranthene	0.16	J	0.18	0.034	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Benzo[k]fluoranthene	0.055	J	0.18	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Benzo[a]pyrene	0.12	J	0.18	0.032	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Indeno[1,2,3-cd]pyrene	0.094	J	0.18	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Dibenz(a,h)anthracene	<0.18		0.18	0.049	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Benzo[g,h,i]perylene	0.089	J	0.18	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
3 & 4 Methylphenol	<0.89		0.89	0.33	mg/Kg	☼	08/07/13 07:10	08/13/13 16:14	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		30 - 110				08/07/13 07:10	08/13/13 16:14	5
Phenol-d5	72		31 - 110				08/07/13 07:10	08/13/13 16:14	5
Nitrobenzene-d5	60		30 - 115				08/07/13 07:10	08/13/13 16:14	5
2-Fluorobiphenyl	76		30 - 119				08/07/13 07:10	08/13/13 16:14	5
2,4,6-Tribromophenol	94		35 - 137				08/07/13 07:10	08/13/13 16:14	5
Terphenyl-d14	112		36 - 134				08/07/13 07:10	08/13/13 16:14	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Arsenic	7.0		0.54	0.11	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Barium	69		0.54	0.058	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Beryllium	0.65		0.22	0.019	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Boron	7.8		2.7	0.11	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Cadmium	0.67		0.11	0.014	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Calcium	28000	B	11	2.9	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Chromium	20		0.54	0.063	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Cobalt	9.2	B	0.27	0.019	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Copper	19		0.54	0.048	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Iron	18000		11	4.5	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Lead	21		0.27	0.081	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Magnesium	17000	B	5.4	1.1	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Manganese	450	B	0.54	0.030	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Nickel	20	B	0.54	0.053	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Potassium	2100	B	27	1.6	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	07/30/13 10:14	08/17/13 16:30	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Sodium	1500		54	7.3	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Thallium	0.29	J	0.54	0.23	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Vanadium	28	B	0.27	0.040	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1
Zinc	55		1.1	0.22	mg/Kg	☼	07/30/13 10:14	08/13/13 09:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/13 12:00	08/21/13 12:49	1
Chromium	<0.025		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 12:49	1
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 12:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Client Sample ID: 846D-137-B05

Lab Sample ID: 500-59941-30

Date Collected: 07/26/13 11:15

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 12:49	1
Manganese	1.0		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 12:49	1
Nickel	<0.025		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 12:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		08/04/13 07:45	08/13/13 00:40	1
Beryllium	0.0066		0.0040	0.0040	mg/L		08/04/13 07:45	08/13/13 00:40	1
Boron	1.0		0.10	0.050	mg/L		08/04/13 07:45	08/13/13 00:40	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		08/04/13 07:45	08/13/13 00:40	1
Chromium	0.15		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:40	1
Cobalt	0.039		0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:40	1
Iron	140		0.20	0.20	mg/L		08/04/13 07:45	08/13/13 00:40	1
Lead	0.096		0.0075	0.0050	mg/L		08/04/13 07:45	08/13/13 00:40	1
Manganese	0.68		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:40	1
Nickel	0.14		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:40	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/13/13 00:40	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:40	1
Zinc	0.82		0.10	0.020	mg/L		08/04/13 07:45	08/13/13 00:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/17/13 12:00	08/19/13 12:55	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 17:02	1
Thallium	0.0026		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 17:02	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020		0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:46	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0083	mg/Kg	☼	07/31/13 17:30	08/01/13 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.77		0.200	0.200	SU			08/09/13 13:02	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-5

Qualifiers

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.

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact
 Andrews Engineering, Inc.
 3300 Ginger Creek Drive
 Springfield, IL 62711
 217-787-2334
 Contact: Colleen Grey
 email: cgrey@andrews-eng.com

Laboratory
 Lab: Test America - Chicago
 Address: 2417 Bond Street
 University Park, IL 60484
 Phone: 708-534-5200
 Contact: Dick Wright
 email: richard.wright@testamerica.com

Project Name: US6/IL7 Will Cook Co
 Project No.: IDOT 2013-022
 TAT: 15 BD 10 BD 5 BD 2 BD Other

COC No.: 1 of 1
 Lab Job No.: 500-599A1
 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.

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	ANALYSES												
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	
25	846D-137-B01	7/24/13	11:00	S	X	X				X	X	X	X	X			0'-2'
26	846D-137-B02		10:55														0'-2'
27	846D-137-B03		10:30														0'-1'
28	846D-137-B04		10:20														0'-1'
29	846D-137-B04 DUP		10:25														0'-1'
30	846D-137-B05		11:15	S	X	X				X	X	X	X	X			0'-1'

Relinquished by: John A. M... Date/Time: 7/26/13 4:25pm Received by: [Signature] Date/Time: 7/26/13 1625

Relinquished by: [Signature] Date/Time: 07/24/13 1715 Received by: [Signature] Date/Time: 7/26/13 1715

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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
15700 to 16000 108th Ave.

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.60128 Longitude: -87.88217
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 351 (U.S. 6/IL 7)

Latitude: 41.60128 Longitude: -87.88217

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 846D-138-B01 THRU -B06 WERE SAMPLED ADJACENT TO SITE No. 846D-138. SEE FIGURE 7, FIGURE 15, AND TABLE 3r OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59941-6

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

I, Steven Gobelman (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: Illinois Department of Transportation, Bureau of Design and Environment

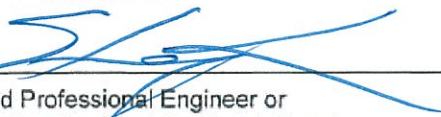
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

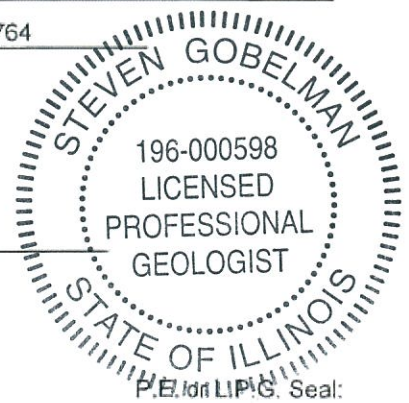
Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

9/20/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-138
Residential

Sample ID	846D-138-B01	846D-138-B02	846D-138-B03	846D-138-B04	846D-138-B05	846D-138-B06	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	0-4	0-4	0-4	0-4						
Sample Date	7/26/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013						
PID	0	0	0	0	0	0						
Sample pH	7.6	7.52	8.3	8.18	8.39	7.87						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						

No Contaminants of Concern Noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59941-6
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/21/2013 4:40:24 PM

Richard Wright, Project Manager II
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 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B01

Lab Sample ID: 500-59941-31

Date Collected: 07/26/13 11:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0070		0.0070	0.0030	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Benzene	<0.0070		0.0070	0.00095	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Bromodichloromethane	<0.0070		0.0070	0.0012	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Bromoform	<0.0070		0.0070	0.0016	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Bromomethane	<0.0070		0.0070	0.0021	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
2-Butanone (MEK)	<0.0070		0.0070	0.0025	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Carbon disulfide	<0.0070		0.0070	0.0010	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Carbon tetrachloride	<0.0070		0.0070	0.0013	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Chlorobenzene	<0.0070		0.0070	0.00071	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Chloroethane	<0.0070		0.0070	0.0019	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Chloroform	<0.0070		0.0070	0.00080	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Chloromethane	<0.0070		0.0070	0.0015	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
cis-1,2-Dichloroethene	<0.0070		0.0070	0.00099	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
cis-1,3-Dichloropropene	<0.0070		0.0070	0.00091	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Dibromochloromethane	<0.0070		0.0070	0.0012	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
1,1-Dichloroethane	<0.0070		0.0070	0.0011	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
1,2-Dichloroethane	<0.0070		0.0070	0.0010	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
1,1-Dichloroethene	<0.0070		0.0070	0.0011	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
1,2-Dichloropropane	<0.0070		0.0070	0.0011	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
1,3-Dichloropropene, Total	<0.0070		0.0070	0.00091	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Ethylbenzene	<0.0070		0.0070	0.0014	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
2-Hexanone	<0.0070		0.0070	0.0020	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Methylene Chloride	<0.0070		0.0070	0.0019	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
4-Methyl-2-pentanone (MIBK)	<0.0070		0.0070	0.0018	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Methyl tert-butyl ether	<0.0070		0.0070	0.0012	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Styrene	<0.0070		0.0070	0.00091	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
1,1,1,2-Tetrachloroethane	<0.0070		0.0070	0.0014	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Tetrachloroethene	<0.0070		0.0070	0.0011	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Toluene	<0.0070		0.0070	0.00098	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
trans-1,2-Dichloroethene	<0.0070		0.0070	0.00096	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
trans-1,3-Dichloropropene	<0.0070		0.0070	0.0012	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
1,1,1-Trichloroethane	<0.0070		0.0070	0.0010	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
1,1,2-Trichloroethane	<0.0070		0.0070	0.00095	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Trichloroethene	<0.0070		0.0070	0.0012	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Vinyl acetate	<0.0070		0.0070	0.0011	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Vinyl chloride	<0.0070		0.0070	0.0015	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1
Xylenes, Total	<0.014		0.014	0.00063	mg/Kg	☼	07/26/13 11:30	08/03/13 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	07/26/13 11:30	08/03/13 03:02	1
Dibromofluoromethane	105		75 - 120	07/26/13 11:30	08/03/13 03:02	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/26/13 11:30	08/03/13 03:02	1
Toluene-d8 (Surr)	95		75 - 122	07/26/13 11:30	08/03/13 03:02	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	☼	08/07/13 07:10	08/13/13 16:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B01

Lab Sample ID: 500-59941-31

Date Collected: 07/26/13 11:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
4-Nitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Phenanthrene	0.022	J	0.038	0.016	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Fluoranthene	0.047		0.038	0.016	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Pyrene	0.042		0.038	0.014	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Benzo[a]anthracene	0.026	J	0.038	0.0080	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B01

Lab Sample ID: 500-59941-31

Date Collected: 07/26/13 11:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.035	J	0.038	0.0086	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Benzo[b]fluoranthene	0.051		0.038	0.0074	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Benzo[k]fluoranthene	0.018	J	0.038	0.0091	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Benzo[a]pyrene	0.029	J	0.038	0.0069	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Indeno[1,2,3-cd]pyrene	0.020	J	0.038	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Dibenz(a,h)anthracene	0.011	J	0.038	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Benzo[g,h,i]perylene	0.018	J	0.038	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/07/13 07:10	08/13/13 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	48		30 - 110				08/07/13 07:10	08/13/13 16:35	1
Phenol-d5	54		31 - 110				08/07/13 07:10	08/13/13 16:35	1
Nitrobenzene-d5	47		30 - 115				08/07/13 07:10	08/13/13 16:35	1
2-Fluorobiphenyl	57		30 - 119				08/07/13 07:10	08/13/13 16:35	1
2,4,6-Tribromophenol	68		35 - 137				08/07/13 07:10	08/13/13 16:35	1
Terphenyl-d14	77		36 - 134				08/07/13 07:10	08/13/13 16:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Arsenic	6.7		0.55	0.11	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Barium	76		0.55	0.059	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Beryllium	0.64		0.22	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Boron	4.2		2.8	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Cadmium	0.49		0.11	0.014	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Calcium	4100	B	11	3.0	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Chromium	15		0.55	0.064	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Cobalt	9.8	B	0.28	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Copper	16		0.55	0.049	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Iron	17000		11	4.5	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Lead	26		0.28	0.082	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Magnesium	3400	B	5.5	1.1	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Manganese	480	B	0.55	0.030	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Nickel	18	B	0.55	0.054	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Potassium	1700	B	28	1.7	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Selenium	0.44	J	0.55	0.20	mg/Kg	☼	07/30/13 10:14	08/17/13 16:36	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Sodium	180		55	7.4	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Thallium	0.33	J	0.55	0.23	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Vanadium	20	B	0.28	0.041	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1
Zinc	55		1.1	0.22	mg/Kg	☼	07/30/13 10:14	08/13/13 09:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 12:56	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 12:56	1
Manganese	0.10		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 12:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B01

Lab Sample ID: 500-59941-31

Date Collected: 07/26/13 11:30

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.62		0.50	0.010	mg/L		08/04/13 07:45	08/13/13 00:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/13/13 00:46	1
Boron	0.72		0.10	0.050	mg/L		08/04/13 07:45	08/13/13 00:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/13/13 00:46	1
Chromium	0.049		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:46	1
Cobalt	0.011	J	0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:46	1
Iron	39		0.20	0.20	mg/L		08/04/13 07:45	08/13/13 00:46	1
Lead	0.028		0.0075	0.0050	mg/L		08/04/13 07:45	08/13/13 00:46	1
Manganese	0.32		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:46	1
Nickel	0.039		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:46	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/13/13 00:46	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:46	1
Zinc	0.48		0.10	0.020	mg/L		08/04/13 07:45	08/13/13 00:46	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 17:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 17:03	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000022	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:48	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.017	0.0078	mg/Kg	☆	07/31/13 17:30	08/01/13 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.60		0.200	0.200	SU			08/09/13 13:04	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B02

Lab Sample ID: 500-59941-32

Date Collected: 07/26/13 12:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 83.3

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	☼	07/26/13 12:30	08/03/13 03:25	1
Benzene	<0.0059		0.0059	0.00081	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Bromodichloromethane	<0.0059		0.0059	0.0010	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Bromoform	<0.0059		0.0059	0.0014	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Bromomethane	<0.0059		0.0059	0.0018	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
2-Butanone (MEK)	<0.0059		0.0059	0.0021	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Carbon disulfide	<0.0059		0.0059	0.00088	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Carbon tetrachloride	<0.0059		0.0059	0.0011	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Chlorobenzene	<0.0059		0.0059	0.00060	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Chloroethane	<0.0059		0.0059	0.0016	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Chloroform	<0.0059		0.0059	0.00068	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Chloromethane	<0.0059		0.0059	0.0012	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
cis-1,2-Dichloroethene	<0.0059		0.0059	0.00083	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
cis-1,3-Dichloropropene	<0.0059		0.0059	0.00077	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Dibromochloromethane	<0.0059		0.0059	0.0010	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
1,1-Dichloroethane	<0.0059		0.0059	0.00093	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
1,2-Dichloroethane	<0.0059		0.0059	0.00087	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
1,1-Dichloroethene	<0.0059		0.0059	0.00095	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
1,2-Dichloropropane	<0.0059		0.0059	0.00089	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
1,3-Dichloropropene, Total	<0.0059		0.0059	0.00077	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Ethylbenzene	<0.0059		0.0059	0.0012	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
2-Hexanone	<0.0059		0.0059	0.0017	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Methylene Chloride	<0.0059		0.0059	0.0016	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
4-Methyl-2-pentanone (MIBK)	<0.0059		0.0059	0.0015	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Methyl tert-butyl ether	<0.0059		0.0059	0.00097	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Styrene	<0.0059		0.0059	0.00077	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
1,1,1,2-Tetrachloroethane	<0.0059		0.0059	0.0012	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Tetrachloroethene	<0.0059		0.0059	0.00090	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Toluene	<0.0059		0.0059	0.00082	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
trans-1,2-Dichloroethene	<0.0059		0.0059	0.00081	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
trans-1,3-Dichloropropene	<0.0059		0.0059	0.0011	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
1,1,1-Trichloroethane	<0.0059		0.0059	0.00088	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
1,1,2-Trichloroethane	<0.0059		0.0059	0.00080	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Trichloroethene	<0.0059		0.0059	0.00097	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Vinyl acetate	<0.0059		0.0059	0.00093	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Vinyl chloride	<0.0059		0.0059	0.0012	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1
Xylenes, Total	<0.012		0.012	0.00053	mg/Kg	☼	07/26/13 12:30	08/03/13 03:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	07/26/13 12:30	08/03/13 03:25	1
Dibromofluoromethane	106		75 - 120	07/26/13 12:30	08/03/13 03:25	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/26/13 12:30	08/03/13 03:25	1
Toluene-d8 (Surr)	92		75 - 122	07/26/13 12:30	08/03/13 03:25	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	☼	08/07/13 07:10	08/13/13 16:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B02

Lab Sample ID: 500-59941-32

Date Collected: 07/26/13 12:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B02

Lab Sample ID: 500-59941-32

Date Collected: 07/26/13 12:30

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/07/13 07:10	08/13/13 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		30 - 110	08/07/13 07:10	08/13/13 16:56	1
Phenol-d5	53		31 - 110	08/07/13 07:10	08/13/13 16:56	1
Nitrobenzene-d5	50		30 - 115	08/07/13 07:10	08/13/13 16:56	1
2-Fluorobiphenyl	57		30 - 119	08/07/13 07:10	08/13/13 16:56	1
2,4,6-Tribromophenol	64		35 - 137	08/07/13 07:10	08/13/13 16:56	1
Terphenyl-d14	82		36 - 134	08/07/13 07:10	08/13/13 16:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Arsenic	6.0		0.59	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Barium	80		0.59	0.064	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Beryllium	0.67		0.24	0.021	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Boron	3.4		3.0	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Cadmium	0.32		0.12	0.015	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Calcium	2600	B	12	3.2	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Chromium	15		0.59	0.069	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Cobalt	10	B	0.30	0.021	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Copper	15		0.59	0.053	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Iron	17000		12	4.9	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Lead	15		0.30	0.089	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Magnesium	2800	B	5.9	1.2	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Manganese	470	B	0.59	0.032	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Nickel	18	B	0.59	0.058	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Potassium	1600	B	30	1.8	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Selenium	0.49	J	0.59	0.21	mg/Kg	☼	07/30/13 10:14	08/17/13 16:42	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Sodium	140		59	8.0	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Thallium	0.46	J	0.59	0.25	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Vanadium	21	B	0.30	0.044	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1
Zinc	42		1.2	0.24	mg/Kg	☼	07/30/13 10:14	08/13/13 10:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.30		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 13:02	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 13:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B02

Lab Sample ID: 500-59941-32

Date Collected: 07/26/13 12:30

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.67		0.50	0.010	mg/L		08/04/13 07:45	08/13/13 00:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/13/13 00:52	1
Boron	0.93		0.10	0.050	mg/L		08/04/13 07:45	08/13/13 00:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/13/13 00:52	1
Chromium	0.033		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:52	1
Cobalt	0.0057	J	0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:52	1
Iron	23		0.20	0.20	mg/L		08/04/13 07:45	08/13/13 00:52	1
Lead	0.013		0.0075	0.0050	mg/L		08/04/13 07:45	08/13/13 00:52	1
Manganese	0.11		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:52	1
Nickel	0.025		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 00:52	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/13/13 00:52	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 00:52	1
Zinc	0.49		0.10	0.020	mg/L		08/04/13 07:45	08/13/13 00:52	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 17:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 17:04	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:50	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0085	mg/Kg	☆	07/31/13 17:30	08/01/13 13:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.52		0.200	0.200	SU			08/09/13 13:06	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B03

Lab Sample ID: 500-59941-33

Date Collected: 07/26/13 12:35

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 89.2

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	☼	07/26/13 12:35	08/03/13 03:47	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Toluene	<0.0045		0.0045	0.00062	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	07/26/13 12:35	08/03/13 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	07/26/13 12:35	08/03/13 03:47	1
Dibromofluoromethane	112		75 - 120	07/26/13 12:35	08/03/13 03:47	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/26/13 12:35	08/03/13 03:47	1
Toluene-d8 (Surr)	96		75 - 122	07/26/13 12:35	08/03/13 03:47	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	☼	08/07/13 07:10	08/13/13 17:17	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B03

Lab Sample ID: 500-59941-33

Date Collected: 07/26/13 12:35

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Hexachlorocyclopentadiene	<0.72		0.72	0.17	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Acenaphthylene	<0.036		0.036	0.0082	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Fluorene	<0.036		0.036	0.0081	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
4-Nitroaniline	<0.36		0.36	0.073	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Hexachlorobenzene	<0.072		0.072	0.0071	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Anthracene	<0.036		0.036	0.0084	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Fluoranthene	0.018	J	0.036	0.015	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Pyrene	0.018	J	0.036	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Benzo[a]anthracene	0.0092	J	0.036	0.0075	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B03

Lab Sample ID: 500-59941-33

Date Collected: 07/26/13 12:35

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.036	0.0081	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Benzo[b]fluoranthene	0.016	J	0.036	0.0070	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Benzo[k]fluoranthene	<0.036		0.036	0.0085	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Benzo[a]pyrene	0.014	J	0.036	0.0065	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Indeno[1,2,3-cd]pyrene	0.013	J	0.036	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	08/07/13 07:10	08/13/13 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	34		30 - 110				08/07/13 07:10	08/13/13 17:17	1
Phenol-d5	38		31 - 110				08/07/13 07:10	08/13/13 17:17	1
Nitrobenzene-d5	34		30 - 115				08/07/13 07:10	08/13/13 17:17	1
2-Fluorobiphenyl	42		30 - 119				08/07/13 07:10	08/13/13 17:17	1
2,4,6-Tribromophenol	43		35 - 137				08/07/13 07:10	08/13/13 17:17	1
Terphenyl-d14	53		36 - 134				08/07/13 07:10	08/13/13 17:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Arsenic	6.9		0.54	0.11	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Barium	29		0.54	0.057	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Beryllium	0.48		0.21	0.019	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Boron	7.8		2.7	0.11	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Cadmium	0.67		0.11	0.014	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Calcium	38000	B	11	2.9	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Chromium	13		0.54	0.062	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Cobalt	8.2	B	0.27	0.019	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Copper	19		0.54	0.048	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Iron	16000		11	4.4	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Lead	12		0.27	0.080	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Magnesium	22000	B	5.4	1.1	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Manganese	300	B	0.54	0.029	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Nickel	22	B	0.54	0.053	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Potassium	2000	B	27	1.6	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	07/30/13 10:14	08/17/13 16:49	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Sodium	260		54	7.2	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Thallium	0.50	J	0.54	0.23	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Vanadium	14	B	0.27	0.040	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1
Zinc	39		1.1	0.22	mg/Kg	☼	07/30/13 10:14	08/13/13 10:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 13:08	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 13:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B03

Lab Sample ID: 500-59941-33

Date Collected: 07/26/13 12:35

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57		0.50	0.010	mg/L		08/04/13 07:45	08/13/13 01:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/13/13 01:13	1
Boron	0.86		0.10	0.050	mg/L		08/04/13 07:45	08/13/13 01:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/13/13 01:13	1
Chromium	0.033		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 01:13	1
Cobalt	0.0095	J	0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 01:13	1
Iron	28		0.20	0.20	mg/L		08/04/13 07:45	08/13/13 01:13	1
Lead	0.017		0.0075	0.0050	mg/L		08/04/13 07:45	08/13/13 01:13	1
Manganese	0.12		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 01:13	1
Nickel	0.034		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 01:13	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/13/13 01:13	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 01:13	1
Zinc	0.48		0.10	0.020	mg/L		08/04/13 07:45	08/13/13 01:13	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 17:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 17:08	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:52	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.017	0.0082	mg/Kg	☆	07/31/13 17:30	08/01/13 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.30		0.200	0.200	SU			08/09/13 13:08	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B04

Lab Sample ID: 500-59941-34

Date Collected: 07/26/13 14:10

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.013		0.0055	0.0024	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Benzene	<0.0055		0.0055	0.00076	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Bromodichloromethane	<0.0055		0.0055	0.00095	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Bromoform	<0.0055		0.0055	0.0013	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Bromomethane	<0.0055		0.0055	0.0017	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Carbon disulfide	<0.0055		0.0055	0.00083	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Carbon tetrachloride	<0.0055		0.0055	0.0010	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Chlorobenzene	<0.0055		0.0055	0.00056	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Chloroethane	<0.0055		0.0055	0.0015	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Chloroform	<0.0055		0.0055	0.00064	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Chloromethane	<0.0055		0.0055	0.0012	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.00078	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.00073	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Dibromochloromethane	<0.0055		0.0055	0.00096	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
1,1-Dichloroethane	<0.0055		0.0055	0.00088	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
1,2-Dichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
1,1-Dichloroethene	<0.0055		0.0055	0.00089	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
1,2-Dichloropropane	<0.0055		0.0055	0.00084	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.00073	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Ethylbenzene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
2-Hexanone	<0.0055		0.0055	0.0016	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Methylene Chloride	<0.0055		0.0055	0.0015	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0015	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Methyl tert-butyl ether	<0.0055		0.0055	0.00091	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Styrene	<0.0055		0.0055	0.00073	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Tetrachloroethene	<0.0055		0.0055	0.00085	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Toluene	<0.0055		0.0055	0.00077	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.00076	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.00099	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.00083	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.00076	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Trichloroethene	<0.0055		0.0055	0.00091	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Vinyl acetate	<0.0055		0.0055	0.00087	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Vinyl chloride	<0.0055		0.0055	0.0012	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1
Xylenes, Total	<0.011		0.011	0.00050	mg/Kg	☼	07/26/13 14:10	08/03/13 04:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	07/26/13 14:10	08/03/13 04:10	1
Dibromofluoromethane	105		75 - 120	07/26/13 14:10	08/03/13 04:10	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/26/13 14:10	08/03/13 04:10	1
Toluene-d8 (Surr)	95		75 - 122	07/26/13 14:10	08/03/13 04:10	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	☼	08/07/13 07:10	08/13/13 17:38	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B04

Lab Sample ID: 500-59941-34

Date Collected: 07/26/13 14:10

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B04

Lab Sample ID: 500-59941-34

Date Collected: 07/26/13 14:10

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/07/13 07:10	08/13/13 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		30 - 110				08/07/13 07:10	08/13/13 17:38	1
Phenol-d5	61		31 - 110				08/07/13 07:10	08/13/13 17:38	1
Nitrobenzene-d5	59		30 - 115				08/07/13 07:10	08/13/13 17:38	1
2-Fluorobiphenyl	68		30 - 119				08/07/13 07:10	08/13/13 17:38	1
2,4,6-Tribromophenol	72		35 - 137				08/07/13 07:10	08/13/13 17:38	1
Terphenyl-d14	103		36 - 134				08/07/13 07:10	08/13/13 17:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Arsenic	9.0		0.55	0.11	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Barium	51		0.55	0.059	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Beryllium	0.58		0.22	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Boron	4.9		2.8	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Cadmium	0.59		0.11	0.014	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Calcium	22000	B	11	3.0	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Chromium	14		0.55	0.064	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Cobalt	11	B	0.28	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Copper	19		0.55	0.049	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Iron	19000		11	4.5	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Lead	16		0.28	0.082	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Magnesium	14000	B	5.5	1.1	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Manganese	450	B	0.55	0.030	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Nickel	23	B	0.55	0.054	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Potassium	1600	B	28	1.7	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	07/30/13 10:14	08/17/13 16:55	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Sodium	93		55	7.4	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Thallium	0.45	J	0.55	0.23	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Vanadium	18	B	0.28	0.041	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1
Zinc	41		1.1	0.22	mg/Kg	☼	07/30/13 10:14	08/13/13 10:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 13:14	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 13:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B04

Lab Sample ID: 500-59941-34

Date Collected: 07/26/13 14:10

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J	0.50	0.010	mg/L		08/04/13 07:45	08/13/13 01:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/13/13 01:19	1
Boron	0.58		0.10	0.050	mg/L		08/04/13 07:45	08/13/13 01:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/13/13 01:19	1
Chromium	0.025		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 01:19	1
Cobalt	0.0064	J	0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 01:19	1
Iron	22		0.20	0.20	mg/L		08/04/13 07:45	08/13/13 01:19	1
Lead	0.011		0.0075	0.0050	mg/L		08/04/13 07:45	08/13/13 01:19	1
Manganese	0.081		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 01:19	1
Nickel	0.023	J	0.025	0.010	mg/L		08/04/13 07:45	08/13/13 01:19	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/13/13 01:19	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 01:19	1
Zinc	0.32		0.10	0.020	mg/L		08/04/13 07:45	08/13/13 01:19	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 17:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 17:08	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:54	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.017	0.0081	mg/Kg	☆	07/31/13 17:30	08/01/13 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.18		0.200	0.200	SU			08/09/13 13:10	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B05

Lab Sample ID: 500-59941-35

Date Collected: 07/26/13 14:05

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00082	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00089	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Vinyl acetate	<0.0049		0.0049	0.00078	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	07/26/13 14:05	08/03/13 04:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	07/26/13 14:05	08/03/13 04:33	1
Dibromofluoromethane	101		75 - 120	07/26/13 14:05	08/03/13 04:33	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	07/26/13 14:05	08/03/13 04:33	1
Toluene-d8 (Surr)	96		75 - 122	07/26/13 14:05	08/03/13 04:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B05

Lab Sample ID: 500-59941-35

Date Collected: 07/26/13 14:05

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B05

Lab Sample ID: 500-59941-35

Date Collected: 07/26/13 14:05

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	08/07/13 07:10	08/13/13 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		30 - 110				08/07/13 07:10	08/13/13 17:59	1
Phenol-d5	52		31 - 110				08/07/13 07:10	08/13/13 17:59	1
Nitrobenzene-d5	40		30 - 115				08/07/13 07:10	08/13/13 17:59	1
2-Fluorobiphenyl	43		30 - 119				08/07/13 07:10	08/13/13 17:59	1
2,4,6-Tribromophenol	50		35 - 137				08/07/13 07:10	08/13/13 17:59	1
Terphenyl-d14	74		36 - 134				08/07/13 07:10	08/13/13 17:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Arsenic	6.4		0.59	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Barium	78		0.59	0.064	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Beryllium	0.77		0.24	0.021	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Boron	6.9		3.0	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Cadmium	0.52		0.12	0.015	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Calcium	11000	B	12	3.2	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Chromium	20		0.59	0.069	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Cobalt	7.5	B	0.30	0.021	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Copper	19		0.59	0.053	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Iron	21000		12	4.9	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Lead	11		0.30	0.089	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Magnesium	9700	B	5.9	1.2	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Manganese	200	B	0.59	0.032	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Nickel	22	B	0.59	0.058	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Potassium	2000	B	30	1.8	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	07/30/13 10:14	08/17/13 17:01	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Sodium	450		59	8.0	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Thallium	0.28	J	0.59	0.25	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Vanadium	24	B	0.30	0.044	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1
Zinc	44		1.2	0.24	mg/Kg	☼	07/30/13 10:14	08/13/13 10:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 13:20	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 13:20	1
Manganese	0.18		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 13:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B05

Lab Sample ID: 500-59941-35

Date Collected: 07/26/13 14:05

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.79		0.50	0.010	mg/L		08/04/13 07:45	08/13/13 01:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/13/13 01:26	1
Boron	0.83		0.10	0.050	mg/L		08/04/13 07:45	08/13/13 01:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/13/13 01:26	1
Chromium	0.097		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 01:26	1
Cobalt	0.019	J	0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 01:26	1
Iron	81		0.20	0.20	mg/L		08/04/13 07:45	08/13/13 01:26	1
Lead	0.036		0.0075	0.0050	mg/L		08/04/13 07:45	08/13/13 01:26	1
Manganese	0.30		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 01:26	1
Nickel	0.080		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 01:26	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/13/13 01:26	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 01:26	1
Zinc	0.54		0.10	0.020	mg/L		08/04/13 07:45	08/13/13 01:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/17/13 12:00	08/19/13 12:55	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 17:09	1
Thallium	0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 17:09	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:56	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.020	0.0093	mg/Kg	☼	07/31/13 17:30	08/01/13 13:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.39		0.200	0.200	SU			08/09/13 13:13	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B06

Lab Sample ID: 500-59941-36

Date Collected: 07/26/13 14:15

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0056		0.0047	0.0020	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
1,1-Dichloroethene	<0.0047		0.0047	0.00075	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00083	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Vinyl acetate	<0.0047		0.0047	0.00073	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	07/26/13 14:15	08/03/13 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	07/26/13 14:15	08/03/13 04:56	1
Dibromofluoromethane	105		75 - 120	07/26/13 14:15	08/03/13 04:56	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/26/13 14:15	08/03/13 04:56	1
Toluene-d8 (Surr)	93		75 - 122	07/26/13 14:15	08/03/13 04:56	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	☼	08/07/13 07:10	08/13/13 18:19	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B06

Lab Sample ID: 500-59941-36

Date Collected: 07/26/13 14:15

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
3-Nitroaniline	<0.40		0.40	0.079	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Acenaphthylene	<0.040		0.040	0.0094	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Fluorene	<0.040		0.040	0.0093	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.099	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Anthracene	<0.040		0.040	0.0096	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B06

Lab Sample ID: 500-59941-36

Date Collected: 07/26/13 14:15

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0092	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Di-n-octyl phthalate	<0.20		0.20	0.083	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Benzo[b]fluoranthene	<0.040		0.040	0.0079	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Benzo[k]fluoranthene	<0.040		0.040	0.0097	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Benzo[a]pyrene	<0.040		0.040	0.0074	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	08/07/13 07:10	08/13/13 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	33		30 - 110				08/07/13 07:10	08/13/13 18:19	1
Phenol-d5	36		31 - 110				08/07/13 07:10	08/13/13 18:19	1
Nitrobenzene-d5	38		30 - 115				08/07/13 07:10	08/13/13 18:19	1
2-Fluorobiphenyl	44		30 - 119				08/07/13 07:10	08/13/13 18:19	1
2,4,6-Tribromophenol	50		35 - 137				08/07/13 07:10	08/13/13 18:19	1
Terphenyl-d14	66		36 - 134				08/07/13 07:10	08/13/13 18:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Arsenic	6.4		0.61	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Barium	89		0.61	0.065	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Beryllium	0.83		0.24	0.021	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Boron	6.5		3.0	0.13	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Cadmium	0.46		0.12	0.015	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Calcium	6800 B		12	3.3	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Chromium	21		0.61	0.071	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Cobalt	12 B		0.30	0.022	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Copper	17		0.61	0.054	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Iron	20000		12	5.0	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Lead	13		0.30	0.091	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Magnesium	6600 B		6.1	1.3	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Manganese	220 B		0.61	0.033	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Nickel	27 B		0.61	0.060	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Potassium	2100 B		30	1.8	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Selenium	<0.61		0.61	0.22	mg/Kg	☼	07/30/13 10:14	08/17/13 17:07	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Sodium	99		61	8.2	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Thallium	0.35 J		0.61	0.26	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Vanadium	26 B		0.30	0.045	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1
Zinc	41		1.2	0.25	mg/Kg	☼	07/30/13 10:14	08/13/13 10:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		08/17/13 12:00	08/21/13 13:41	1
Boron	1.0		0.10	0.050	mg/L		08/17/13 12:00	08/21/13 13:41	1
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 13:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Client Sample ID: 846D-138-B06

Lab Sample ID: 500-59941-36

Date Collected: 07/26/13 14:15

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	5.2		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	2.6		2.5	0.050	mg/L		08/04/13 07:45	08/13/13 01:32	5
Beryllium	<0.020		0.020	0.020	mg/L		08/04/13 07:45	08/13/13 01:32	5
Boron	4.2		0.50	0.25	mg/L		08/04/13 07:45	08/13/13 01:32	5
Cadmium	<0.025		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 01:32	5
Chromium	<0.13		0.13	0.050	mg/L		08/04/13 07:45	08/13/13 01:32	5
Cobalt	<0.13		0.13	0.025	mg/L		08/04/13 07:45	08/13/13 01:32	5
Iron	6.9		1.0	1.0	mg/L		08/04/13 07:45	08/13/13 01:32	5
Lead	<0.038		0.038	0.025	mg/L		08/04/13 07:45	08/13/13 01:32	5
Manganese	0.23		0.13	0.050	mg/L		08/04/13 07:45	08/13/13 01:32	5
Nickel	<0.13		0.13	0.050	mg/L		08/04/13 07:45	08/13/13 01:32	5
Selenium	<0.25		0.25	0.050	mg/L		08/04/13 07:45	08/13/13 01:32	5
Silver	<0.13		0.13	0.025	mg/L		08/04/13 07:45	08/13/13 01:32	5
Zinc	2.0		0.50	0.10	mg/L		08/04/13 07:45	08/13/13 01:32	5

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 17:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 17:10	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:58	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.020	0.0094	mg/Kg	☼	07/31/13 17:30	08/01/13 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.87		0.200	0.200	SU			08/09/13 13:15	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-6

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
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

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: US6/IL7 Will/Condo	COC No.: 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: 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.: IDOT 2013-022	Lab Job No.: 500-5994
		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:
		Sampler: RM + JT	

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
31	846D-138-B01	7/26/13	11:30	S	XX						X	X	X	X		0'-4'
32	846D-138-B02		12:30													0'-4'
33	846D-138-B03		12:35													0'-4'
34	846D-138-B04		2:10													0'-4'
35	846D-138-B05		2:05													0'-4'
36	846D-138-B06		2:15	S	XX						X	X	X	X		0'-4'

Relinquished by: Kim A. Young (AEE)	Date/Time: 7/26/13 4:25 PM	Received by: [Signature]	Date/Time: 07/26/13 1625
Relinquished by: [Signature]	Date/Time: 07/26/13 1715	Received by: [Signature]	Date/Time: 7/26/13 1715
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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

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

15716 to 15748 Heatherglen Drive

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.60286 Longitude: -87.88161
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 351 (U.S. 6/IL 7)

Latitude: 41.60286 Longitude: -87.88161

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 846D-139-B01 WAS SAMPLED ADJACENT TO SITE No. 846D-139. SEE FIGURE 15 AND TABLE 3s OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59941-7

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

I, Steven Gobelman (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: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

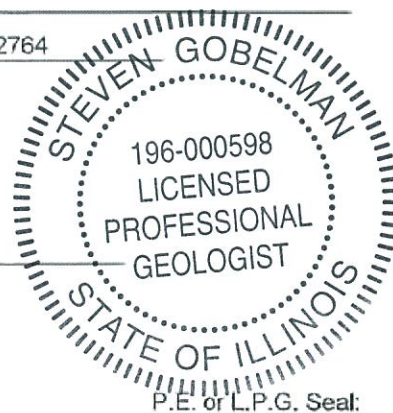
Steven Gobelman, P.E., L.P.G.

Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

9/20/11

Date:



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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-139

Residential

Sample ID	846D-139-B01								
Sample Depth (ft)	0-1								
Sample Date	7/26/2013								
PID	0								
Sample pH	8.03								
Matrix	Soil								
No Contaminants of Concern Noted.									
		¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-59941-7

Client Project/Site: IDOT - US 6/IL 7 - WO 022

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

8/21/2013 4:39:09 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-7

Client Sample ID: 846D-139-B01

Lab Sample ID: 500-59941-37

Date Collected: 07/26/13 13:40

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.013		0.0051	0.0022	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Chloroform	<0.0051		0.0051	0.00058	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Dibromochloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00082	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	07/26/13 13:40	08/03/13 05:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	07/26/13 13:40	08/03/13 05:19	1
Dibromofluoromethane	107		75 - 120	07/26/13 13:40	08/03/13 05:19	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/26/13 13:40	08/03/13 05:19	1
Toluene-d8 (Surr)	93		75 - 122	07/26/13 13:40	08/03/13 05:19	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	☼	08/07/13 07:10	08/14/13 17:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-7

Client Sample ID: 846D-139-B01

Lab Sample ID: 500-59941-37

Date Collected: 07/26/13 13:40

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
2-Methylnaphthalene	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Hexachlorobenzene	<0.078		0.078	0.0077	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Benzo[a]anthracene	<0.039		0.039	0.0081	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-7

Client Sample ID: 846D-139-B01

Lab Sample ID: 500-59941-37

Date Collected: 07/26/13 13:40

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Benzo[b]fluoranthene	0.012	J	0.039	0.0076	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Benzo[a]pyrene	0.012	J	0.039	0.0071	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.039	0.013	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/07/13 07:10	08/14/13 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		30 - 110	08/07/13 07:10	08/14/13 17:04	1
Phenol-d5	46		31 - 110	08/07/13 07:10	08/14/13 17:04	1
Nitrobenzene-d5	38		30 - 115	08/07/13 07:10	08/14/13 17:04	1
2-Fluorobiphenyl	48		30 - 119	08/07/13 07:10	08/14/13 17:04	1
2,4,6-Tribromophenol	57		35 - 137	08/07/13 07:10	08/14/13 17:04	1
Terphenyl-d14	63		36 - 134	08/07/13 07:10	08/14/13 17:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.9		5.9	2.4	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Arsenic	1.7	J	2.9	0.58	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Barium	4.8		2.9	0.31	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Beryllium	0.18	J	1.2	0.10	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Boron	15		2.9	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 10:34	1
Cadmium	<0.59		0.59	0.075	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Calcium	200000		59	16	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Chromium	2.6	J	2.9	0.34	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Cobalt	1.4	J	1.5	0.10	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Copper	2.1	J	2.9	0.26	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Iron	2600		59	24	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Lead	1.9		1.5	0.44	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Magnesium	130000		29	6.1	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Manganese	200		2.9	0.16	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Nickel	4.0		2.9	0.29	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Potassium	1000	B	29	1.8	mg/Kg	☼	07/30/13 10:14	08/13/13 10:34	1
Selenium	<2.9		2.9	1.0	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Silver	<1.5		1.5	0.11	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Sodium	260		59	7.9	mg/Kg	☼	07/30/13 10:14	08/13/13 10:34	1
Thallium	<2.9		2.9	1.2	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Vanadium	4.0		1.5	0.22	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5
Zinc	4.3	J	5.9	1.2	mg/Kg	☼	07/30/13 10:14	08/17/13 17:13	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 13:48	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 13:48	1
Manganese	1.1		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 13:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-7

Client Sample ID: 846D-139-B01

Lab Sample ID: 500-59941-37

Date Collected: 07/26/13 13:40

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.69		0.50	0.010	mg/L		08/04/13 07:45	08/13/13 01:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/13/13 01:57	1
Boron	0.76		0.10	0.050	mg/L		08/04/13 07:45	08/13/13 01:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/13/13 01:57	1
Chromium	0.061		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 01:57	1
Cobalt	0.017	J	0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 01:57	1
Iron	45		0.20	0.20	mg/L		08/04/13 07:45	08/13/13 01:57	1
Lead	0.034		0.0075	0.0050	mg/L		08/04/13 07:45	08/13/13 01:57	1
Manganese	0.27		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 01:57	1
Nickel	0.048		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 01:57	1
Selenium	<0.050		0.050	0.010	mg/L		08/04/13 07:45	08/13/13 01:57	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 01:57	1
Zinc	0.50		0.10	0.020	mg/L		08/04/13 07:45	08/13/13 01:57	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 17:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 17:14	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000055	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 12:59	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0085	mg/Kg	☆	07/31/13 17:30	08/01/13 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.03		0.200	0.200	SU			08/09/13 13:19	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-7

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

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



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 operations.

I. Source Location Information

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

Project Name: FAP 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
10710 to 10800 W 159th St.

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.60114 Longitude: -87.88153
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 351 (U.S. 6/IL 7)
Latitude: 41.60114 Longitude: -87.88153

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 846D-140-B01 THRU -B05, AND -B07 WERE SAMPLED ADJACENT TO SITE No. 846D-140. SEE FIGURE 7, FIGURE 8, FIGURE 15, AND TABLE 3t OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60027-1 & 500-59941-8

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

I, Steven Gobelman (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.

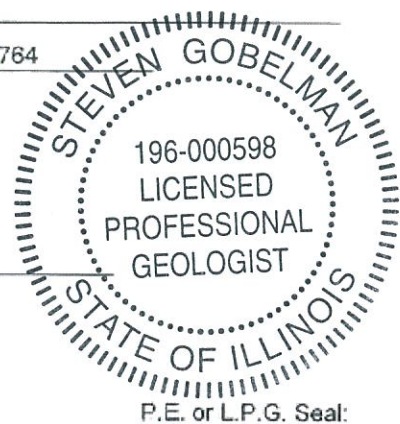
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment
Street Address: 2300 South Dirksen Parkway
City: Springfield State: IL Zip Code: 62764
Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.
Printed Name:

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

9/20/14
Date:



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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-140

Vacant Area

Sample ID	846D-140-B01-1	846D-140-B01-2	846D-140-B02-1	846D-140-B02-1 DUP	846D-140-B02-2										
Sample Depth (ft)	0-4	4-6	0-4	0-4	4-6										
Sample Date	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013										
PID	0	0	0	0	0										
Sample pH	8.06	8.64	7.97	7.84	8.56										
Matrix	Soil	Soil	Soil	Soil	Soil										
Inorganic Compounds, Total (mg/kg)															
Arsenic	11	11	11	11	13	1.3	11.3	NA	11.3	NA	11.3	NA	NA	13	NA

Sample ID	846D-140-B03	846D-140-B04	846D-140-B05	846D-140-B07											
Sample Depth (ft)	0-2	0-2	0-2	0-2											
Sample Date	7/29/2013	7/29/2013	7/26/2013	7/29/2013											
PID	0	0	0	0											
Sample pH	7.37	8.01	8.31	8.46											
Matrix	Soil	Soil	Soil	Soil											
Inorganic Compounds, Total (mg/kg)															
Arsenic	8.6	7	5.9	7.5	11.3	11.3	NA	11.3	NA	11.3	NA	13	NA	NA	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: 500-60027-1
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/30/2013 1:16:55 PM

Richard Wright, Project Manager II
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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B01-1

Lab Sample ID: 500-60027-1

Date Collected: 07/29/13 12:10

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0074		0.0052	0.0022	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Chlorobenzene	<0.0052		0.0052	0.00052	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Chloroform	<0.0052		0.0052	0.00059	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
1,2-Dichloropropane	<0.0052		0.0052	0.00078	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00085	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Toluene	<0.0052		0.0052	0.00072	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00070	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Vinyl acetate	<0.0052		0.0052	0.00081	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	07/29/13 12:10	08/04/13 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	07/29/13 12:10	08/04/13 12:13	1
Dibromofluoromethane	103		75 - 120	07/29/13 12:10	08/04/13 12:13	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/29/13 12:10	08/04/13 12:13	1
Toluene-d8 (Surr)	95		75 - 122	07/29/13 12:10	08/04/13 12:13	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	☼	08/07/13 07:17	08/15/13 10:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B01-1

Lab Sample ID: 500-60027-1

Date Collected: 07/29/13 12:10

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B01-1

Lab Sample ID: 500-60027-1

Date Collected: 07/29/13 12:10

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Benzo[b]fluoranthene	0.013	J	0.039	0.0077	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Benzo[a]pyrene	0.0075	J	0.039	0.0072	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	08/07/13 07:17	08/15/13 10:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		30 - 110	08/07/13 07:17	08/15/13 10:52	1
Phenol-d5	79		31 - 110	08/07/13 07:17	08/15/13 10:52	1
Nitrobenzene-d5	73		30 - 115	08/07/13 07:17	08/15/13 10:52	1
2-Fluorobiphenyl	69		30 - 119	08/07/13 07:17	08/15/13 10:52	1
2,4,6-Tribromophenol	84		35 - 137	08/07/13 07:17	08/15/13 10:52	1
Terphenyl-d14	75		36 - 134	08/07/13 07:17	08/15/13 10:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Arsenic	11		0.57	0.11	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Barium	76		0.57	0.061	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Beryllium	0.92		0.23	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Boron	5.1		2.9	0.12	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Cadmium	0.21		0.11	0.014	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Calcium	1800	B	11	3.1	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Chromium	21		0.57	0.066	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Cobalt	18		0.29	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Copper	30	B	0.57	0.051	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Iron	26000		11	4.7	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Lead	20		0.29	0.085	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Magnesium	4400		5.7	1.2	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Manganese	460	B	0.57	0.031	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Nickel	36	B	0.57	0.056	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Potassium	1800		29	1.7	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Selenium	0.55	J	0.57	0.20	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Sodium	82		57	7.6	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Thallium	0.74		0.57	0.24	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Vanadium	26		0.29	0.042	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1
Zinc	62		1.1	0.23	mg/Kg	☼	07/30/13 16:30	08/25/13 02:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/28/13 10:00	08/29/13 19:13	1
Iron	<0.20		0.20	0.20	mg/L		08/28/13 10:00	08/29/13 19:13	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	08/29/13 19:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B01-1

Lab Sample ID: 500-60027-1

Date Collected: 07/29/13 12:10

Matrix: Solid

Date Received: 07/29/13 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.029		0.025	0.010	mg/L		08/28/13 10:00	08/29/13 19:13	1
Nickel	<0.025		0.025	0.010	mg/L		08/28/13 10:00	08/29/13 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.33	J	0.50	0.010	mg/L		08/08/13 13:00	08/23/13 23:44	1
Beryllium	0.0047		0.0040	0.0040	mg/L		08/08/13 13:00	08/23/13 23:44	1
Boron	0.071	J	0.10	0.050	mg/L		08/08/13 13:00	08/23/13 23:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/23/13 23:44	1
Chromium	0.086		0.025	0.010	mg/L		08/08/13 13:00	08/23/13 23:44	1
Cobalt	0.022	J	0.025	0.0050	mg/L		08/08/13 13:00	08/23/13 23:44	1
Iron	110		0.20	0.20	mg/L		08/08/13 13:00	08/23/13 23:44	1
Lead	0.043		0.0075	0.0050	mg/L		08/08/13 13:00	08/23/13 23:44	1
Manganese	0.41		0.025	0.010	mg/L		08/08/13 13:00	08/23/13 23:44	1
Nickel	0.11		0.025	0.010	mg/L		08/08/13 13:00	08/23/13 23:44	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/23/13 23:44	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/23/13 23:44	1
Zinc	0.26		0.10	0.020	mg/L		08/08/13 13:00	08/23/13 23:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/28/13 10:00	08/29/13 19:21	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 17:42	1
Thallium	0.0023		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 17:42	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00019	J	0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 09:35	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.018	0.0083	mg/Kg	☼	08/02/13 14:30	08/05/13 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.06		0.200	0.200	SU			08/10/13 10:43	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B01-2

Lab Sample ID: 500-60027-2

Date Collected: 07/29/13 12:15

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 78.5

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	☼	07/29/13 12:15	08/04/13 12:36	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	07/29/13 12:15	08/04/13 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	07/29/13 12:15	08/04/13 12:36	1
Dibromofluoromethane	107		75 - 120	07/29/13 12:15	08/04/13 12:36	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/29/13 12:15	08/04/13 12:36	1
Toluene-d8 (Surr)	94		75 - 122	07/29/13 12:15	08/04/13 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B01-2

Lab Sample ID: 500-60027-2

Date Collected: 07/29/13 12:15

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
2,4-Dimethylphenol	<0.40		0.40	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
2-Nitrophenol	<0.40		0.40	0.062	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Acenaphthylene	<0.040		0.040	0.0091	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Fluorene	<0.040		0.040	0.0090	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Benzo[a]anthracene	<0.040		0.040	0.0083	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B01-2

Lab Sample ID: 500-60027-2

Date Collected: 07/29/13 12:15

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Benzo[b]fluoranthene	<0.040		0.040	0.0077	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Benzo[a]pyrene	<0.040		0.040	0.0072	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	08/07/13 07:17	08/15/13 11:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		30 - 110				08/07/13 07:17	08/15/13 11:16	1
Phenol-d5	70		31 - 110				08/07/13 07:17	08/15/13 11:16	1
Nitrobenzene-d5	71		30 - 115				08/07/13 07:17	08/15/13 11:16	1
2-Fluorobiphenyl	62		30 - 119				08/07/13 07:17	08/15/13 11:16	1
2,4,6-Tribromophenol	76		35 - 137				08/07/13 07:17	08/15/13 11:16	1
Terphenyl-d14	70		36 - 134				08/07/13 07:17	08/15/13 11:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Arsenic	11		0.61	0.12	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Barium	67		0.61	0.066	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Beryllium	0.80		0.25	0.022	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Boron	8.1		3.1	0.13	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Cadmium	0.39		0.12	0.016	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Calcium	22000	B	12	3.3	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Chromium	20		0.61	0.071	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Cobalt	11		0.31	0.022	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Copper	30	B	0.61	0.055	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Iron	25000		12	5.1	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Lead	17		0.31	0.092	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Magnesium	12000		6.1	1.3	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Manganese	320	B	0.61	0.033	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Nickel	32	B	0.61	0.060	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Potassium	2400		31	1.9	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Selenium	0.22	J	0.61	0.22	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Sodium	110		61	8.2	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Thallium	0.47	J	0.61	0.26	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Vanadium	24		0.31	0.046	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1
Zinc	69		1.2	0.25	mg/Kg	☼	07/30/13 16:30	08/25/13 02:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/28/13 10:00	08/29/13 19:42	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	08/29/13 19:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B01-2

Lab Sample ID: 500-60027-2

Date Collected: 07/29/13 12:15

Matrix: Solid

Date Received: 07/29/13 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.12	J	0.50	0.010	mg/L		08/08/13 13:00	08/23/13 23:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/23/13 23:50	1
Boron	0.071	J	0.10	0.050	mg/L		08/08/13 13:00	08/23/13 23:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/23/13 23:50	1
Chromium	0.031		0.025	0.010	mg/L		08/08/13 13:00	08/23/13 23:50	1
Cobalt	0.0069	J	0.025	0.0050	mg/L		08/08/13 13:00	08/23/13 23:50	1
Iron	28		0.20	0.20	mg/L		08/08/13 13:00	08/23/13 23:50	1
Lead	0.013		0.0075	0.0050	mg/L		08/08/13 13:00	08/23/13 23:50	1
Manganese	0.10		0.025	0.010	mg/L		08/08/13 13:00	08/23/13 23:50	1
Nickel	0.029		0.025	0.010	mg/L		08/08/13 13:00	08/23/13 23:50	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/23/13 23:50	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/23/13 23:50	1
Zinc	0.079	J	0.10	0.020	mg/L		08/08/13 13:00	08/23/13 23:50	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 17:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 17:42	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000057	J	0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 09:37	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.019	0.0090	mg/Kg	☆	08/02/13 14:30	08/05/13 10:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.64		0.200	0.200	SU			08/10/13 10:46	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B02-1

Lab Sample ID: 500-60027-3

Date Collected: 07/29/13 11:45

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 83.7

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	☼	07/29/13 11:45	08/04/13 12:59	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Chlorobenzene	<0.0052		0.0052	0.00052	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00085	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Toluene	<0.0052		0.0052	0.00072	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Vinyl acetate	<0.0052		0.0052	0.00081	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	07/29/13 11:45	08/04/13 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	07/29/13 11:45	08/04/13 12:59	1
Dibromofluoromethane	103		75 - 120	07/29/13 11:45	08/04/13 12:59	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/29/13 11:45	08/04/13 12:59	1
Toluene-d8 (Surr)	93		75 - 122	07/29/13 11:45	08/04/13 12:59	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	☼	08/07/13 07:17	08/15/13 11:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B02-1

Lab Sample ID: 500-60027-3

Date Collected: 07/29/13 11:45

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B02-1

Lab Sample ID: 500-60027-3

Date Collected: 07/29/13 11:45

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/07/13 07:17	08/15/13 11:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		30 - 110	08/07/13 07:17	08/15/13 11:39	1
Phenol-d5	59		31 - 110	08/07/13 07:17	08/15/13 11:39	1
Nitrobenzene-d5	53		30 - 115	08/07/13 07:17	08/15/13 11:39	1
2-Fluorobiphenyl	49		30 - 119	08/07/13 07:17	08/15/13 11:39	1
2,4,6-Tribromophenol	69		35 - 137	08/07/13 07:17	08/15/13 11:39	1
Terphenyl-d14	60		36 - 134	08/07/13 07:17	08/15/13 11:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Arsenic	11		0.59	0.12	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Barium	60		0.59	0.063	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Beryllium	0.76		0.23	0.021	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Boron	5.3		2.9	0.12	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Cadmium	0.15		0.12	0.015	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Calcium	1600	B	12	3.2	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Chromium	20		0.59	0.068	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Cobalt	9.4		0.29	0.021	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Copper	26	B	0.59	0.052	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Iron	26000		12	4.8	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Lead	16		0.29	0.087	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Magnesium	4200		5.9	1.2	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Manganese	300	B	0.59	0.032	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Nickel	30	B	0.59	0.058	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Potassium	1800		29	1.8	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Selenium	0.55	J	0.59	0.21	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Sodium	70		59	7.9	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Thallium	0.57	J	0.59	0.25	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Vanadium	23		0.29	0.043	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1
Zinc	50		1.2	0.24	mg/Kg	☼	07/30/13 16:30	08/25/13 03:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/28/13 10:00	08/29/13 19:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B02-1

Lab Sample ID: 500-60027-3

Date Collected: 07/29/13 11:45

Matrix: Solid

Date Received: 07/29/13 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.35	J	0.50	0.010	mg/L		08/08/13 13:00	08/23/13 23:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/23/13 23:56	1
Boron	0.50		0.10	0.050	mg/L		08/08/13 13:00	08/23/13 23:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/23/13 23:56	1
Chromium	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/23/13 23:56	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/23/13 23:56	1
Iron	6.6		0.20	0.20	mg/L		08/08/13 13:00	08/23/13 23:56	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/08/13 13:00	08/23/13 23:56	1
Manganese	0.029		0.025	0.010	mg/L		08/08/13 13:00	08/23/13 23:56	1
Nickel	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/23/13 23:56	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/23/13 23:56	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/23/13 23:56	1
Zinc	0.22		0.10	0.020	mg/L		08/08/13 13:00	08/23/13 23:56	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 17:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 17:43	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 09:39	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.0090	mg/Kg	☆	08/02/13 14:30	08/05/13 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.97		0.200	0.200	SU			08/10/13 10:48	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B02-1 DUP

Lab Sample ID: 500-60027-4

Date Collected: 07/29/13 11:50

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0021	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Carbon disulfide	<0.0050		0.0050	0.00074	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Carbon tetrachloride	<0.0050		0.0050	0.00090	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Chlorobenzene	<0.0050		0.0050	0.00050	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Chloroethane	<0.0050		0.0050	0.0013	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Dibromochloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
1,1-Dichloroethane	<0.0050		0.0050	0.00078	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
1,2-Dichloroethane	<0.0050		0.0050	0.00073	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
1,2-Dichloropropane	<0.0050		0.0050	0.00075	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Toluene	<0.0050		0.0050	0.00069	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00068	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Vinyl acetate	<0.0050		0.0050	0.00078	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	07/29/13 11:50	08/04/13 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	07/29/13 11:50	08/04/13 13:22	1
Dibromofluoromethane	105		75 - 120	07/29/13 11:50	08/04/13 13:22	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	07/29/13 11:50	08/04/13 13:22	1
Toluene-d8 (Surr)	95		75 - 122	07/29/13 11:50	08/04/13 13:22	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	☼	08/07/13 07:17	08/15/13 12:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B02-1 DUP

Lab Sample ID: 500-60027-4

Date Collected: 07/29/13 11:50

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
2-Methylnaphthalene	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Hexachlorobenzene	<0.078		0.078	0.0077	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B02-1 DUP

Lab Sample ID: 500-60027-4

Date Collected: 07/29/13 11:50

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/07/13 07:17	08/15/13 12:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		30 - 110	08/07/13 07:17	08/15/13 12:03	1
Phenol-d5	63		31 - 110	08/07/13 07:17	08/15/13 12:03	1
Nitrobenzene-d5	57		30 - 115	08/07/13 07:17	08/15/13 12:03	1
2-Fluorobiphenyl	56		30 - 119	08/07/13 07:17	08/15/13 12:03	1
2,4,6-Tribromophenol	79		35 - 137	08/07/13 07:17	08/15/13 12:03	1
Terphenyl-d14	77		36 - 134	08/07/13 07:17	08/15/13 12:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Arsenic	11		0.55	0.11	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Barium	74		0.55	0.059	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Beryllium	0.86		0.22	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Boron	6.3		2.8	0.12	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Cadmium	0.19		0.11	0.014	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Calcium	1800	B	11	3.0	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Chromium	23		0.55	0.064	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Cobalt	13		0.28	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Copper	29	B	0.55	0.049	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Iron	27000		11	4.5	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Lead	16		0.28	0.082	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Magnesium	5100		5.5	1.1	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Manganese	920	B	5.5	0.30	mg/Kg	☼	07/30/13 16:30	08/25/13 15:32	10
Nickel	41	B	0.55	0.054	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Potassium	2100		28	1.7	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Selenium	0.47	J	0.55	0.20	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Sodium	80		55	7.4	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Thallium	0.62		0.55	0.23	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Vanadium	24		0.28	0.041	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1
Zinc	54		1.1	0.22	mg/Kg	☼	07/30/13 16:30	08/25/13 03:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.42	J	0.50	0.010	mg/L		08/08/13 13:00	08/24/13 00:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/24/13 00:03	1
Boron	0.59		0.10	0.050	mg/L		08/08/13 13:00	08/24/13 00:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B02-1 DUP

Lab Sample ID: 500-60027-4

Date Collected: 07/29/13 11:50

Matrix: Solid

Date Received: 07/29/13 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/24/13 00:03	1
Chromium	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/24/13 00:03	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/24/13 00:03	1
Iron	0.50		0.20	0.20	mg/L		08/08/13 13:00	08/24/13 00:03	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/08/13 13:00	08/24/13 00:03	1
Manganese	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/24/13 00:03	1
Nickel	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/24/13 00:03	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/24/13 00:03	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/24/13 00:03	1
Zinc	0.25		0.10	0.020	mg/L		08/08/13 13:00	08/24/13 00:03	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 17:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 17:44	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 09:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.018	0.0083	mg/Kg	☆	08/02/13 14:30	08/05/13 10:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.84		0.200	0.200	SU			08/10/13 10:51	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B02-2

Lab Sample ID: 500-60027-5

Date Collected: 07/29/13 11:55

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0059		0.0040	0.0017	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Bromodichloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Bromoform	<0.0040		0.0040	0.00093	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
2-Butanone (MEK)	<0.0040		0.0040	0.0015	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Carbon tetrachloride	<0.0040		0.0040	0.00074	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Chloromethane	<0.0040		0.0040	0.00085	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
1,1-Dichloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
1,1,1-Dichloroethane	<0.0040		0.0040	0.00065	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Ethylbenzene	<0.0040		0.0040	0.00082	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0011	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00067	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Tetrachloroethene	<0.0040		0.0040	0.00062	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Toluene	<0.0040		0.0040	0.00057	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00056	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Trichloroethene	<0.0040		0.0040	0.00067	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Vinyl acetate	<0.0040		0.0040	0.00064	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Vinyl chloride	<0.0040		0.0040	0.00085	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg	☼	07/29/13 11:55	08/04/13 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	07/29/13 11:55	08/04/13 13:45	1
Dibromofluoromethane	108		75 - 120	07/29/13 11:55	08/04/13 13:45	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/29/13 11:55	08/04/13 13:45	1
Toluene-d8 (Surr)	93		75 - 122	07/29/13 11:55	08/04/13 13:45	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	☼	08/07/13 07:17	08/16/13 11:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B02-2

Lab Sample ID: 500-60027-5

Date Collected: 07/29/13 11:55

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.056	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Hexachlorobenzene	<0.074		0.074	0.0073	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Diethyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B02-2

Lab Sample ID: 500-60027-5

Date Collected: 07/29/13 11:55

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Benzo[b]fluoranthene	0.0080	J	0.037	0.0072	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/07/13 07:17	08/16/13 11:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		30 - 110	08/07/13 07:17	08/16/13 11:14	1
Phenol-d5	58		31 - 110	08/07/13 07:17	08/16/13 11:14	1
Nitrobenzene-d5	57		30 - 115	08/07/13 07:17	08/16/13 11:14	1
2-Fluorobiphenyl	70		30 - 119	08/07/13 07:17	08/16/13 11:14	1
2,4,6-Tribromophenol	48		35 - 137	08/07/13 07:17	08/16/13 11:14	1
Terphenyl-d14	94		36 - 134	08/07/13 07:17	08/16/13 11:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Arsenic	13		0.55	0.11	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Barium	30		0.55	0.059	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Beryllium	0.52		0.22	0.019	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Boron	7.4		2.8	0.12	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Cadmium	0.50		0.11	0.014	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Calcium	33000	B	11	3.0	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Chromium	14		0.55	0.064	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Cobalt	11		0.28	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Copper	35	B	0.55	0.049	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Iron	23000		11	4.5	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Lead	17		0.28	0.082	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Magnesium	23000		5.5	1.1	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Manganese	480	B	0.55	0.030	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Nickel	31	B	0.55	0.054	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Potassium	1900		28	1.7	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Sodium	110		55	7.4	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Thallium	0.62		0.55	0.23	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Vanadium	16		0.28	0.041	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1
Zinc	59		1.1	0.22	mg/Kg	☼	07/30/13 16:30	08/25/13 03:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.35	J	0.50	0.010	mg/L		08/08/13 13:00	08/24/13 00:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/24/13 00:09	1
Boron	0.53		0.10	0.050	mg/L		08/08/13 13:00	08/24/13 00:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B02-2

Lab Sample ID: 500-60027-5

Date Collected: 07/29/13 11:55

Matrix: Solid

Date Received: 07/29/13 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/24/13 00:09	1
Chromium	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/24/13 00:09	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/24/13 00:09	1
Iron	2.2		0.20	0.20	mg/L		08/08/13 13:00	08/24/13 00:09	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/08/13 13:00	08/24/13 00:09	1
Manganese	0.017	J	0.025	0.010	mg/L		08/08/13 13:00	08/24/13 00:09	1
Nickel	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/24/13 00:09	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/24/13 00:09	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/24/13 00:09	1
Zinc	0.23		0.10	0.020	mg/L		08/08/13 13:00	08/24/13 00:09	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 17:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 17:45	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000028	J	0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 09:43	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0088	mg/Kg	☆	08/02/13 14:30	08/05/13 10:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.56		0.200	0.200	SU			08/10/13 10:54	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B03

Lab Sample ID: 500-60027-6

Date Collected: 07/29/13 11:30

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0064		0.0064	0.0027	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Benzene	<0.0064		0.0064	0.00087	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Bromodichloromethane	<0.0064		0.0064	0.0011	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Bromoform	<0.0064		0.0064	0.0015	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Bromomethane	<0.0064		0.0064	0.0019	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
2-Butanone (MEK)	<0.0064		0.0064	0.0023	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Carbon disulfide	<0.0064		0.0064	0.00095	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Carbon tetrachloride	<0.0064		0.0064	0.0012	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Chlorobenzene	<0.0064		0.0064	0.00064	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Chloroethane	<0.0064		0.0064	0.0017	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Chloroform	<0.0064		0.0064	0.00073	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Chloromethane	<0.0064		0.0064	0.0013	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
cis-1,2-Dichloroethene	<0.0064		0.0064	0.00090	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
cis-1,3-Dichloropropene	<0.0064		0.0064	0.00083	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Dibromochloromethane	<0.0064		0.0064	0.0011	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
1,1-Dichloroethane	<0.0064		0.0064	0.0010	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
1,2-Dichloroethane	<0.0064		0.0064	0.00094	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
1,1-Dichloroethene	<0.0064		0.0064	0.0010	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
1,2-Dichloropropane	<0.0064		0.0064	0.00096	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
1,3-Dichloropropene, Total	<0.0064		0.0064	0.00083	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Ethylbenzene	<0.0064		0.0064	0.0013	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
2-Hexanone	<0.0064		0.0064	0.0018	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Methylene Chloride	<0.0064		0.0064	0.0017	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
4-Methyl-2-pentanone (MIBK)	<0.0064		0.0064	0.0017	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Methyl tert-butyl ether	<0.0064		0.0064	0.0010	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Styrene	<0.0064		0.0064	0.00083	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
1,1,2,2-Tetrachloroethane	<0.0064		0.0064	0.0013	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Tetrachloroethene	<0.0064		0.0064	0.00097	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Toluene	<0.0064		0.0064	0.00089	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
trans-1,2-Dichloroethene	<0.0064		0.0064	0.00087	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
trans-1,3-Dichloropropene	<0.0064		0.0064	0.0011	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
1,1,1-Trichloroethane	<0.0064		0.0064	0.00095	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
1,1,2-Trichloroethane	<0.0064		0.0064	0.00087	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Trichloroethene	<0.0064		0.0064	0.0010	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Vinyl acetate	<0.0064		0.0064	0.0010	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Vinyl chloride	<0.0064		0.0064	0.0013	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1
Xylenes, Total	<0.013		0.013	0.00058	mg/Kg	☼	07/29/13 11:30	08/04/13 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	07/29/13 11:30	08/04/13 14:08	1
Dibromofluoromethane	105		75 - 120	07/29/13 11:30	08/04/13 14:08	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/29/13 11:30	08/04/13 14:08	1
Toluene-d8 (Surr)	96		75 - 122	07/29/13 11:30	08/04/13 14:08	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	☼	08/07/13 07:17	08/15/13 20:06	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B03

Lab Sample ID: 500-60027-6

Date Collected: 07/29/13 11:30

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B03

Lab Sample ID: 500-60027-6

Date Collected: 07/29/13 11:30

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	08/07/13 07:17	08/15/13 20:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		30 - 110				08/07/13 07:17	08/15/13 20:06	1
Phenol-d5	60		31 - 110				08/07/13 07:17	08/15/13 20:06	1
Nitrobenzene-d5	49		30 - 115				08/07/13 07:17	08/15/13 20:06	1
2-Fluorobiphenyl	50		30 - 119				08/07/13 07:17	08/15/13 20:06	1
2,4,6-Tribromophenol	65		35 - 137				08/07/13 07:17	08/15/13 20:06	1
Terphenyl-d14	65		36 - 134				08/07/13 07:17	08/15/13 20:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Arsenic	8.6		0.59	0.12	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Barium	120		0.59	0.063	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Beryllium	0.95		0.24	0.021	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Boron	3.9		3.0	0.12	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Cadmium	<0.12		0.12	0.015	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Calcium	3100 B		12	3.2	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Chromium	21		0.59	0.069	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Cobalt	11		0.30	0.021	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Copper	20 B		0.59	0.052	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Iron	24000		12	4.9	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Lead	18		0.30	0.088	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Magnesium	4400		5.9	1.2	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Manganese	420 B		0.59	0.032	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Nickel	23 B		0.59	0.058	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Potassium	1500		30	1.8	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Sodium	110		59	7.9	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Thallium	0.84		0.59	0.25	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Vanadium	27		0.30	0.044	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1
Zinc	51		1.2	0.24	mg/Kg	☼	07/30/13 16:30	08/25/13 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.56		0.50	0.010	mg/L		08/08/13 13:00	08/24/13 00:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/24/13 00:15	1
Boron	0.61		0.10	0.050	mg/L		08/08/13 13:00	08/24/13 00:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B03

Lab Sample ID: 500-60027-6

Date Collected: 07/29/13 11:30

Matrix: Solid

Date Received: 07/29/13 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/24/13 00:15	1
Chromium	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/24/13 00:15	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/24/13 00:15	1
Iron	<0.20		0.20	0.20	mg/L		08/08/13 13:00	08/24/13 00:15	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/08/13 13:00	08/24/13 00:15	1
Manganese	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/24/13 00:15	1
Nickel	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/24/13 00:15	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/24/13 00:15	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/24/13 00:15	1
Zinc	0.26		0.10	0.020	mg/L		08/08/13 13:00	08/24/13 00:15	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 17:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 17:46	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 09:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.020	0.0096	mg/Kg	☆	08/02/13 14:30	08/05/13 10:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.37		0.200	0.200	SU			08/10/13 10:56	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B04

Lab Sample ID: 500-60027-7

Date Collected: 07/29/13 12:20

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 89.2

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	☼	07/29/13 12:20	08/04/13 14:31	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
2-Butanone (MEK)	<0.0051		0.0051	0.0019	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Carbon disulfide	<0.0051		0.0051	0.00077	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
1,1-Dichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00077	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Trichloroethene	<0.0051		0.0051	0.00085	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Vinyl acetate	<0.0051		0.0051	0.00081	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	07/29/13 12:20	08/04/13 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	07/29/13 12:20	08/04/13 14:31	1
Dibromofluoromethane	100		75 - 120	07/29/13 12:20	08/04/13 14:31	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/29/13 12:20	08/04/13 14:31	1
Toluene-d8 (Surr)	94		75 - 122	07/29/13 12:20	08/04/13 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.055	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B04

Lab Sample ID: 500-60027-7

Date Collected: 07/29/13 12:20

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
2-Methylphenol	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Hexachloroethane	<0.18		0.18	0.037	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
2-Chlorophenol	<0.18		0.18	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Naphthalene	<0.035		0.035	0.0067	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
4-Chloroaniline	<0.70		0.70	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Hexachlorocyclopentadiene	<0.70		0.70	0.16	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
2-Methylnaphthalene	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
2-Nitroaniline	<0.18		0.18	0.063	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
3-Nitroaniline	<0.35		0.35	0.067	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
2,4-Dinitrophenol	<0.70		0.70	0.18	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Acenaphthylene	<0.035		0.035	0.0080	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Acenaphthene	<0.035		0.035	0.010	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
4-Nitrophenol	<0.70		0.70	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Fluorene	<0.035		0.035	0.0079	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
4-Nitroaniline	<0.35		0.35	0.072	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Hexachlorobenzene	<0.070		0.070	0.0069	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Diethyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.055	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Pentachlorophenol	<0.70		0.70	0.18	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
N-Nitrosodiphenylamine	<0.18		0.18	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.085	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Anthracene	<0.035		0.035	0.0082	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Carbazole	<0.18		0.18	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Di-n-butyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Fluoranthene	<0.035		0.035	0.014	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Benzo[a]anthracene	<0.035		0.035	0.0073	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B04

Lab Sample ID: 500-60027-7

Date Collected: 07/29/13 12:20

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0079	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Di-n-octyl phthalate	<0.18		0.18	0.071	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Benzo[b]fluoranthene	<0.035		0.035	0.0068	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Benzo[k]fluoranthene	<0.035		0.035	0.0083	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Benzo[a]pyrene	<0.035		0.035	0.0064	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0098	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1
3 & 4 Methylphenol	<0.18		0.18	0.066	mg/Kg	☼	08/07/13 07:17	08/15/13 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		30 - 110	08/07/13 07:17	08/15/13 20:30	1
Phenol-d5	66		31 - 110	08/07/13 07:17	08/15/13 20:30	1
Nitrobenzene-d5	56		30 - 115	08/07/13 07:17	08/15/13 20:30	1
2-Fluorobiphenyl	57		30 - 119	08/07/13 07:17	08/15/13 20:30	1
2,4,6-Tribromophenol	64		35 - 137	08/07/13 07:17	08/15/13 20:30	1
Terphenyl-d14	71		36 - 134	08/07/13 07:17	08/15/13 20:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Arsenic	7.0		0.55	0.11	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Barium	46		0.55	0.059	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Beryllium	0.54		0.22	0.019	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Boron	6.9		2.8	0.12	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Cadmium	0.31		0.11	0.014	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Calcium	91000	B	110	30	mg/Kg	☼	07/30/13 16:30	08/25/13 15:51	10
Chromium	14		0.55	0.064	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Cobalt	6.9		0.28	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Copper	19	B	0.55	0.049	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Iron	16000		11	4.5	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Lead	12		0.28	0.082	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Magnesium	48000		5.5	1.1	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Manganese	330	B	0.55	0.030	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Nickel	19	B	0.55	0.054	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Potassium	2000		28	1.7	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Selenium	<5.5		5.5	2.0	mg/Kg	☼	07/30/13 16:30	08/25/13 15:51	10
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Sodium	160		55	7.4	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Thallium	0.50	J	0.55	0.23	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Vanadium	16		0.28	0.041	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1
Zinc	35		1.1	0.22	mg/Kg	☼	07/30/13 16:30	08/25/13 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J	0.50	0.010	mg/L		08/08/13 13:00	08/24/13 00:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/24/13 00:21	1
Boron	0.62		0.10	0.050	mg/L		08/08/13 13:00	08/24/13 00:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B04

Lab Sample ID: 500-60027-7

Date Collected: 07/29/13 12:20

Matrix: Solid

Date Received: 07/29/13 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/24/13 00:21	1
Chromium	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/24/13 00:21	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/24/13 00:21	1
Iron	2.2		0.20	0.20	mg/L		08/08/13 13:00	08/24/13 00:21	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/08/13 13:00	08/24/13 00:21	1
Manganese	0.012	J	0.025	0.010	mg/L		08/08/13 13:00	08/24/13 00:21	1
Nickel	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/24/13 00:21	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/24/13 00:21	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/24/13 00:21	1
Zinc	0.26		0.10	0.020	mg/L		08/08/13 13:00	08/24/13 00:21	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 17:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 17:47	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 09:51	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0085	mg/Kg	☆	08/02/13 14:30	08/05/13 10:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01		0.200	0.200	SU			08/10/13 11:01	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B07

Lab Sample ID: 500-60027-9

Date Collected: 07/29/13 11:10

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 86.3

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	☼	07/29/13 11:10	08/04/13 15:17	1
Benzene	<0.0053		0.0053	0.00072	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Bromodichloromethane	<0.0053		0.0053	0.00091	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Carbon disulfide	<0.0053		0.0053	0.00079	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Carbon tetrachloride	<0.0053		0.0053	0.00096	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Chlorobenzene	<0.0053		0.0053	0.00054	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Chloroethane	<0.0053		0.0053	0.0014	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00069	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Dibromochloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
1,1-Dichloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
1,1-Dichloroethene	<0.0053		0.0053	0.00086	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
1,2-Dichloropropane	<0.0053		0.0053	0.00080	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00069	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00087	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Styrene	<0.0053		0.0053	0.00069	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
1,1,1,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Tetrachloroethene	<0.0053		0.0053	0.00081	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Toluene	<0.0053		0.0053	0.00074	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00095	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Trichloroethene	<0.0053		0.0053	0.00087	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Vinyl acetate	<0.0053		0.0053	0.00083	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	07/29/13 11:10	08/04/13 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	07/29/13 11:10	08/04/13 15:17	1
Dibromofluoromethane	102		75 - 120	07/29/13 11:10	08/04/13 15:17	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/29/13 11:10	08/04/13 15:17	1
Toluene-d8 (Surr)	94		75 - 122	07/29/13 11:10	08/04/13 15:17	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	☼	08/07/13 07:17	08/16/13 12:13	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B07

Lab Sample ID: 500-60027-9

Date Collected: 07/29/13 11:10

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Phenanthrene	0.029	J	0.036	0.015	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Fluoranthene	0.053		0.036	0.015	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Pyrene	0.060		0.036	0.013	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Benzo[a]anthracene	0.038		0.036	0.0076	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B07

Lab Sample ID: 500-60027-9

Date Collected: 07/29/13 11:10

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.062		0.036	0.0081	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Benzo[b]fluoranthene	0.093		0.036	0.0070	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Benzo[k]fluoranthene	0.045		0.036	0.0086	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Benzo[a]pyrene	0.075		0.036	0.0066	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Indeno[1,2,3-cd]pyrene	0.048		0.036	0.012	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Dibenz(a,h)anthracene	0.018	J	0.036	0.010	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
Benzo[g,h,i]perylene	0.065		0.036	0.012	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	08/07/13 07:17	08/16/13 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		30 - 110	08/07/13 07:17	08/16/13 12:13	1
Phenol-d5	57		31 - 110	08/07/13 07:17	08/16/13 12:13	1
Nitrobenzene-d5	46		30 - 115	08/07/13 07:17	08/16/13 12:13	1
2-Fluorobiphenyl	62		30 - 119	08/07/13 07:17	08/16/13 12:13	1
2,4,6-Tribromophenol	65		35 - 137	08/07/13 07:17	08/16/13 12:13	1
Terphenyl-d14	69		36 - 134	08/07/13 07:17	08/16/13 12:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Arsenic	7.5		0.57	0.11	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Barium	78		0.57	0.061	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Beryllium	0.75		0.23	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Boron	6.8		2.8	0.12	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Cadmium	0.25		0.11	0.014	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Calcium	19000	B	11	3.1	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Chromium	20		0.57	0.066	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Cobalt	10		0.28	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Copper	22	B	0.57	0.050	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Iron	19000		11	4.7	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Lead	27		0.28	0.085	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Magnesium	13000		5.7	1.2	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Manganese	350	B	0.57	0.031	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Nickel	24	B	0.57	0.056	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Potassium	2000		28	1.7	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Sodium	620		57	7.6	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Thallium	0.64		0.57	0.24	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Vanadium	23		0.28	0.042	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1
Zinc	59		1.1	0.23	mg/Kg	☼	07/30/13 16:30	08/25/13 16:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/28/13 10:00	08/29/13 19:57	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	08/29/13 19:57	1
Manganese	2.9		0.025	0.010	mg/L		08/28/13 10:00	08/29/13 19:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Client Sample ID: 846D-140-B07

Lab Sample ID: 500-60027-9

Date Collected: 07/29/13 11:10

Matrix: Solid

Date Received: 07/29/13 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.69		0.50	0.010	mg/L		08/08/13 13:00	08/24/13 01:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/24/13 01:07	1
Boron	0.87		0.10	0.050	mg/L		08/08/13 13:00	08/24/13 01:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/24/13 01:07	1
Chromium	0.025		0.025	0.010	mg/L		08/08/13 13:00	08/24/13 01:07	1
Cobalt	0.0098	J	0.025	0.0050	mg/L		08/08/13 13:00	08/24/13 01:07	1
Iron	22		0.20	0.20	mg/L		08/08/13 13:00	08/24/13 01:07	1
Lead	0.024		0.0075	0.0050	mg/L		08/08/13 13:00	08/24/13 01:07	1
Manganese	0.26		0.025	0.010	mg/L		08/08/13 13:00	08/24/13 01:07	1
Nickel	0.026		0.025	0.010	mg/L		08/08/13 13:00	08/24/13 01:07	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/24/13 01:07	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/24/13 01:07	1
Zinc	0.39		0.10	0.020	mg/L		08/08/13 13:00	08/24/13 01:07	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 17:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 17:54	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000037	J	0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 09:54	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0085	mg/Kg	✱	08/02/13 14:30	08/05/13 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.46		0.200	0.200	SU			08/10/13 11:07	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-1

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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



CHAIN OF CUSTODY RECORD

Client Contact		Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com 500-60027 COC		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>US6/IL7 Wine/Cook Co</u> Project No.: <u>ID07 2013-022</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>KM MM</u>		Project Name: <u>US6/IL7 Wine/Cook Co</u> Project No.: <u>ID07 2013-022</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>KM MM</u>	
COC No.: <u>1</u> of <u>11</u> Lab Job No.: <u>500-60027</u> Sample Temp: <u>42.3, 7</u> Matrix Key:		COC No.: <u>1</u> of <u>11</u> Lab Job No.: <u>500-60027</u> Sample Temp: <u>42.3, 7</u> Matrix Key:	

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	
1	846D-140-B01-1	7/29/13	12:10	S	X	X					X	X	X	X	X		0'-4'
2	846D-140-B01-2		12:15														4'-6'
3	846D-140-B02-1		11:45														0'-4'
4	846D-140-B02-1 DUP		11:50														0'-4'
5	846D-140-B02-2		11:55														4'-6'
6	846D-140-B03		11:30														0'-2'
7	846D-140-B04		12:20														0'-2'
8	846D-140-B05																
8	846D-140-B06		11:20														0'-2'
9	846D-140-B07		11:10	S	X	X					X	X	X	X	X		0'-2'
10	846D-140-B08																

Relinquished by: <u>Kim A. Myers (AF)</u>	Date/Time: <u>7/29/13 14:05</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/29/13 14:15</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>7/29/13 14:53</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/29/13 14:53</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>7/29/13 14:53</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/29/13 14:53</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: 500-59941-8
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/21/2013 4:39:52 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

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results through
TotalAccess

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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 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-8

Client Sample ID: 846D-140-B05

Lab Sample ID: 500-59941-38

Date Collected: 07/26/13 13:50

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 87.2

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	☼	07/26/13 13:50	08/03/13 05:41	1
Benzene	<0.0055		0.0055	0.00076	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Bromodichloromethane	<0.0055		0.0055	0.00095	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Bromoform	<0.0055		0.0055	0.0013	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Bromomethane	<0.0055		0.0055	0.0017	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Carbon disulfide	<0.0055		0.0055	0.00083	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Carbon tetrachloride	<0.0055		0.0055	0.0010	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Chlorobenzene	<0.0055		0.0055	0.00056	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Chloroethane	<0.0055		0.0055	0.0015	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Chloroform	<0.0055		0.0055	0.00064	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Chloromethane	<0.0055		0.0055	0.0012	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.00078	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.00073	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Dibromochloromethane	<0.0055		0.0055	0.00096	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
1,1-Dichloroethane	<0.0055		0.0055	0.00088	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
1,2-Dichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
1,1-Dichloroethene	<0.0055		0.0055	0.00090	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
1,2-Dichloropropane	<0.0055		0.0055	0.00084	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.00073	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Ethylbenzene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
2-Hexanone	<0.0055		0.0055	0.0016	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Methylene Chloride	<0.0055		0.0055	0.0015	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0015	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Methyl tert-butyl ether	<0.0055		0.0055	0.00092	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Styrene	<0.0055		0.0055	0.00073	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Tetrachloroethene	<0.0055		0.0055	0.00085	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Toluene	<0.0055		0.0055	0.00078	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.00076	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.00099	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.00083	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.00076	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Trichloroethene	<0.0055		0.0055	0.00091	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Vinyl acetate	<0.0055		0.0055	0.00087	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Vinyl chloride	<0.0055		0.0055	0.0012	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1
Xylenes, Total	<0.011		0.011	0.00050	mg/Kg	☼	07/26/13 13:50	08/03/13 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	07/26/13 13:50	08/03/13 05:41	1
Dibromofluoromethane	106		75 - 120	07/26/13 13:50	08/03/13 05:41	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/26/13 13:50	08/03/13 05:41	1
Toluene-d8 (Surr)	93		75 - 122	07/26/13 13:50	08/03/13 05:41	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	☼	08/07/13 07:10	08/13/13 19:01	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-8

Client Sample ID: 846D-140-B05

Lab Sample ID: 500-59941-38

Date Collected: 07/26/13 13:50

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Phenanthrene	0.047		0.036	0.015	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Anthracene	0.011	J	0.036	0.0085	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Fluoranthene	0.12		0.036	0.015	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Pyrene	0.098		0.036	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Benzo[a]anthracene	0.064		0.036	0.0076	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-8

Client Sample ID: 846D-140-B05

Lab Sample ID: 500-59941-38

Date Collected: 07/26/13 13:50

Matrix: Solid

Date Received: 07/26/13 16:25

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.084		0.036	0.0082	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Benzo[b]fluoranthene	0.15		0.036	0.0070	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Benzo[k]fluoranthene	0.052		0.036	0.0086	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Benzo[a]pyrene	0.078		0.036	0.0066	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Indeno[1,2,3-cd]pyrene	0.035	J	0.036	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Dibenz(a,h)anthracene	0.016	J	0.036	0.010	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Benzo[g,h,i]perylene	0.035	J	0.036	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	08/07/13 07:10	08/13/13 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		30 - 110				08/07/13 07:10	08/13/13 19:01	1
Phenol-d5	59		31 - 110				08/07/13 07:10	08/13/13 19:01	1
Nitrobenzene-d5	46		30 - 115				08/07/13 07:10	08/13/13 19:01	1
2-Fluorobiphenyl	59		30 - 119				08/07/13 07:10	08/13/13 19:01	1
2,4,6-Tribromophenol	73		35 - 137				08/07/13 07:10	08/13/13 19:01	1
Terphenyl-d14	78		36 - 134				08/07/13 07:10	08/13/13 19:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Arsenic	5.9		0.56	0.11	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Barium	72		0.56	0.060	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Beryllium	0.70		0.22	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Boron	9.1		2.8	0.12	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Cadmium	0.79		0.11	0.014	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Calcium	19000	B	11	3.0	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Chromium	16		0.56	0.065	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Cobalt	6.9	B	0.28	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Copper	20		0.56	0.050	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Iron	16000		11	4.6	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Lead	23		0.28	0.083	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Magnesium	12000	B	5.6	1.2	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Manganese	300	B	0.56	0.030	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Nickel	19	B	0.56	0.055	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Potassium	2100	B	28	1.7	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Selenium	0.36	J	0.56	0.20	mg/Kg	☼	07/30/13 10:14	08/17/13 17:34	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Sodium	670		56	7.5	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Thallium	0.37	J	0.56	0.24	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Vanadium	21	B	0.28	0.041	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1
Zinc	55		1.1	0.23	mg/Kg	☼	07/30/13 10:14	08/13/13 10:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/17/13 12:00	08/21/13 13:57	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/17/13 12:00	08/21/13 13:57	1
Manganese	0.34		0.025	0.010	mg/L		08/17/13 12:00	08/21/13 13:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-8

Client Sample ID: 846D-140-B05

Lab Sample ID: 500-59941-38

Date Collected: 07/26/13 13:50

Matrix: Solid

Date Received: 07/26/13 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.78		0.50	0.010	mg/L		08/04/13 07:45	08/13/13 07:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/04/13 07:45	08/13/13 07:18	1
Boron	0.87		0.10	0.050	mg/L		08/04/13 07:45	08/13/13 07:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/04/13 07:45	08/13/13 07:18	1
Chromium	0.086		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 07:18	1
Cobalt	0.022	J	0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 07:18	1
Iron	78		0.20	0.20	mg/L		08/04/13 07:45	08/13/13 07:18	1
Lead	0.058		0.0075	0.0050	mg/L		08/04/13 07:45	08/13/13 07:18	1
Manganese	0.35		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 07:18	1
Nickel	0.075		0.025	0.010	mg/L		08/04/13 07:45	08/13/13 07:18	1
Selenium	0.023	J ^	0.050	0.010	mg/L		08/04/13 07:45	08/13/13 07:18	1
Silver	<0.025		0.025	0.0050	mg/L		08/04/13 07:45	08/13/13 07:18	1
Zinc	0.58		0.10	0.020	mg/L		08/04/13 07:45	08/13/13 07:18	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/04/13 07:45	08/09/13 17:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/04/13 07:45	08/09/13 17:15	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000071	J	0.00020	0.000020	mg/L		08/05/13 16:00	08/06/13 13:01	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.018	0.0086	mg/Kg	☆	07/31/13 17:30	08/01/13 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.31		0.200	0.200	SU			08/09/13 13:21	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59941-8

Qualifiers

GC/MS Semi VOA

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

Metals

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

Glossary

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



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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
15941 to 16050 159th St.

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.60057 Longitude: -87.88150
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box: _____
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 351 (U.S. 6/IL 7)

Latitude: 41.60057 Longitude: -87.88150

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 846D-141-B01 THRU -B03 WERE SAMPLED ADJACENT TO SITE No. 846D-141. SEE FIGURE 7 AND TABLE 3u OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60027-2

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

I, Steven Gobelman (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: Illinois Department of Transportation, Bureau of Design and Environment

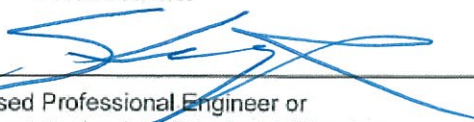
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

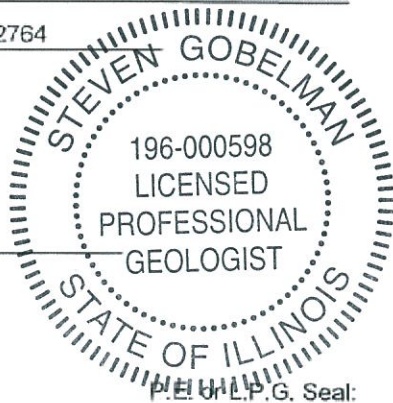
Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

9/20/14
 Date:



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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-141
Commercial and Vacant**

Sample ID	846D-141-B01	846D-141-B02	846D-141-B03									
Sample Depth (ft)	0-2	0-2	0-2									
Sample Date	7/29/2013	7/29/2013	7/29/2013									
PID	0	0	0									
Sample pH	7.75	8.24	8.64									
Matrix	Soil	Soil	Soil									
Inorganic Compounds, Total (mg/kg)												
Arsenic	5.4	13	1.3	7.7	11.3	NA	11.3	11.3	NA	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: 500-60027-2
Client Project/Site: IDOT - US 6/IL 7 - WO 022

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

Attn: Mike Nelson



Authorized for release by:
8/30/2013 1:18:07 PM

Richard Wright, Project Manager II
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.

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-2

Client Sample ID: 846D-141-B01

Lab Sample ID: 500-60027-10

Date Collected: 07/29/13 08:25

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.0051	0.0022	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Carbon tetrachloride	<0.0051		0.0051	0.00092	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Chlorobenzene	<0.0051		0.0051	0.00051	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Chloroform	<0.0051		0.0051	0.00058	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Dibromochloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00082	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	07/29/13 08:25	08/04/13 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	07/29/13 08:25	08/04/13 15:39	1
Dibromofluoromethane	103		75 - 120	07/29/13 08:25	08/04/13 15:39	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	07/29/13 08:25	08/04/13 15:39	1
Toluene-d8 (Surr)	93		75 - 122	07/29/13 08:25	08/04/13 15:39	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	☼	08/07/13 07:17	08/16/13 12:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-2

Client Sample ID: 846D-141-B01

Lab Sample ID: 500-60027-10

Date Collected: 07/29/13 08:25

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-2

Client Sample ID: 846D-141-B01

Lab Sample ID: 500-60027-10

Date Collected: 07/29/13 08:25

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Benzo[b]fluoranthene	0.014	J	0.039	0.0076	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Benzo[k]fluoranthene	0.011	J	0.039	0.0093	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Benzo[a]pyrene	0.015	J	0.039	0.0071	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/07/13 07:17	08/16/13 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		30 - 110	08/07/13 07:17	08/16/13 12:32	1
Phenol-d5	48		31 - 110	08/07/13 07:17	08/16/13 12:32	1
Nitrobenzene-d5	45		30 - 115	08/07/13 07:17	08/16/13 12:32	1
2-Fluorobiphenyl	54		30 - 119	08/07/13 07:17	08/16/13 12:32	1
2,4,6-Tribromophenol	50		35 - 137	08/07/13 07:17	08/16/13 12:32	1
Terphenyl-d14	69		36 - 134	08/07/13 07:17	08/16/13 12:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Arsenic	5.4		0.55	0.11	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Barium	71		0.55	0.059	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Beryllium	0.73		0.22	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Boron	6.6		2.8	0.12	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Cadmium	0.062	J	0.11	0.014	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Calcium	9500	B	11	3.0	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Chromium	18		0.55	0.064	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Cobalt	9.5		0.28	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Copper	18	B	0.55	0.049	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Iron	20000		11	4.6	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Lead	11		0.28	0.083	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Magnesium	7700		5.5	1.1	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Manganese	270	B	0.55	0.030	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Nickel	23	B	0.55	0.054	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Potassium	1900		28	1.7	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Sodium	180		55	7.4	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Thallium	0.70		0.55	0.23	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Vanadium	22		0.28	0.041	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1
Zinc	47		1.1	0.22	mg/Kg	☼	07/30/13 16:30	08/25/13 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J	0.50	0.010	mg/L		08/08/13 13:00	08/24/13 01:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/24/13 01:14	1
Boron	0.69		0.10	0.050	mg/L		08/08/13 13:00	08/24/13 01:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-2

Client Sample ID: 846D-141-B01

Lab Sample ID: 500-60027-10

Date Collected: 07/29/13 08:25

Matrix: Solid

Date Received: 07/29/13 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/24/13 01:14	1
Chromium	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/24/13 01:14	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/24/13 01:14	1
Iron	0.26		0.20	0.20	mg/L		08/08/13 13:00	08/24/13 01:14	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/08/13 13:00	08/24/13 01:14	1
Manganese	0.10		0.025	0.010	mg/L		08/08/13 13:00	08/24/13 01:14	1
Nickel	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/24/13 01:14	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/24/13 01:14	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/24/13 01:14	1
Zinc	0.29		0.10	0.020	mg/L		08/08/13 13:00	08/24/13 01:14	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 17:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 17:55	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000021	J	0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 09:56	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0090	mg/Kg	☆	08/02/13 14:30	08/05/13 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.75		0.200	0.200	SU			08/10/13 11:09	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-2

Client Sample ID: 846D-141-B02

Lab Sample ID: 500-60027-11

Date Collected: 07/29/13 08:50

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 88.7

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	☼	07/29/13 08:50	08/04/13 16:02	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Carbon disulfide	<0.0050		0.0050	0.00074	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Carbon tetrachloride	<0.0050		0.0050	0.00090	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Chlorobenzene	<0.0050		0.0050	0.00050	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Chloroethane	<0.0050		0.0050	0.0013	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Dibromochloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
1,1-Dichloroethane	<0.0050		0.0050	0.00078	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
1,2-Dichloroethane	<0.0050		0.0050	0.00073	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
1,2-Dichloropropane	<0.0050		0.0050	0.00075	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Toluene	<0.0050		0.0050	0.00069	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00068	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Vinyl acetate	<0.0050		0.0050	0.00078	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	07/29/13 08:50	08/04/13 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	07/29/13 08:50	08/04/13 16:02	1
Dibromofluoromethane	106		75 - 120	07/29/13 08:50	08/04/13 16:02	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	07/29/13 08:50	08/04/13 16:02	1
Toluene-d8 (Surr)	93		75 - 122	07/29/13 08:50	08/04/13 16:02	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	☼	08/07/13 07:17	08/15/13 17:17	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-2

Client Sample ID: 846D-141-B02

Lab Sample ID: 500-60027-11

Date Collected: 07/29/13 08:50

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-2

Client Sample ID: 846D-141-B02

Lab Sample ID: 500-60027-11

Date Collected: 07/29/13 08:50

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.036	0.0082	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Bis(2-ethylhexyl) phthalate	0.096	J	0.18	0.048	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Benzo[b]fluoranthene	0.015	J	0.036	0.0070	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Benzo[a]pyrene	0.011	J	0.036	0.0066	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Indeno[1,2,3-cd]pyrene	0.012	J	0.036	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/07/13 07:17	08/15/13 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		30 - 110	08/07/13 07:17	08/15/13 17:17	1
Phenol-d5	54		31 - 110	08/07/13 07:17	08/15/13 17:17	1
Nitrobenzene-d5	44		30 - 115	08/07/13 07:17	08/15/13 17:17	1
2-Fluorobiphenyl	59		30 - 119	08/07/13 07:17	08/15/13 17:17	1
2,4,6-Tribromophenol	70		35 - 137	08/07/13 07:17	08/15/13 17:17	1
Terphenyl-d14	83		36 - 134	08/07/13 07:17	08/15/13 17:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Arsenic	13		0.53	0.11	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Barium	58		0.53	0.057	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Beryllium	0.60		0.21	0.019	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Boron	4.9		2.7	0.11	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Cadmium	0.16		0.11	0.013	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Calcium	17000	B	11	2.9	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Chromium	15		0.53	0.062	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Cobalt	10		0.27	0.019	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Copper	34	B	0.53	0.047	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Iron	23000		11	4.4	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Lead	71		0.27	0.079	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Magnesium	11000		5.3	1.1	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Manganese	370	B	0.53	0.029	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Nickel	26	B	0.53	0.052	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Potassium	1600		27	1.6	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Sodium	110		53	7.1	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Thallium	0.66		0.53	0.22	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Vanadium	19		0.27	0.039	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1
Zinc	62		1.1	0.21	mg/Kg	☼	07/30/13 16:30	08/25/13 16:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/28/13 10:00	08/29/13 20:02	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	08/29/13 20:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-2

Client Sample ID: 846D-141-B02

Lab Sample ID: 500-60027-11

Date Collected: 07/29/13 08:50

Matrix: Solid

Date Received: 07/29/13 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58	B	0.50	0.010	mg/L		08/08/13 13:00	08/25/13 00:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/25/13 00:02	1
Boron	0.96		0.10	0.050	mg/L		08/08/13 13:00	08/25/13 00:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/25/13 00:02	1
Chromium	0.011	J	0.025	0.010	mg/L		08/08/13 13:00	08/25/13 00:02	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 00:02	1
Iron	7.2		0.20	0.20	mg/L		08/08/13 13:00	08/25/13 00:02	1
Lead	0.030		0.0075	0.0050	mg/L		08/08/13 13:00	08/25/13 00:02	1
Manganese	0.051		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 00:02	1
Nickel	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 00:02	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/25/13 00:02	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 00:02	1
Zinc	0.38		0.10	0.020	mg/L		08/08/13 13:00	08/25/13 00:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0030	mg/L		08/28/13 10:00	08/29/13 19:36	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0067		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 17:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 17:58	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 10:38	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0086	mg/Kg	☼	08/02/13 14:30	08/05/13 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU			08/10/13 11:12	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-2

Client Sample ID: 846D-141-B03

Lab Sample ID: 500-60027-12

Date Collected: 07/29/13 09:05

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 87.4

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	☼	07/29/13 09:05	08/04/13 16:25	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	07/29/13 09:05	08/04/13 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	07/29/13 09:05	08/04/13 16:25	1
Dibromofluoromethane	105		75 - 120	07/29/13 09:05	08/04/13 16:25	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/29/13 09:05	08/04/13 16:25	1
Toluene-d8 (Surr)	93		75 - 122	07/29/13 09:05	08/04/13 16:25	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	☼	08/07/13 07:17	08/15/13 17:37	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-2

Client Sample ID: 846D-141-B03

Lab Sample ID: 500-60027-12

Date Collected: 07/29/13 09:05

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-2

Client Sample ID: 846D-141-B03

Lab Sample ID: 500-60027-12

Date Collected: 07/29/13 09:05

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Bis(2-ethylhexyl) phthalate	0.092	J	0.18	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/07/13 07:17	08/15/13 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		30 - 110	08/07/13 07:17	08/15/13 17:37	1
Phenol-d5	45		31 - 110	08/07/13 07:17	08/15/13 17:37	1
Nitrobenzene-d5	49		30 - 115	08/07/13 07:17	08/15/13 17:37	1
2-Fluorobiphenyl	53		30 - 119	08/07/13 07:17	08/15/13 17:37	1
2,4,6-Tribromophenol	63		35 - 137	08/07/13 07:17	08/15/13 17:37	1
Terphenyl-d14	89		36 - 134	08/07/13 07:17	08/15/13 17:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Arsenic	7.7		0.53	0.11	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Barium	38		0.53	0.057	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Beryllium	0.63		0.21	0.019	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Boron	8.8		2.7	0.11	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Cadmium	0.23		0.11	0.014	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Calcium	40000	B	11	2.9	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Chromium	17		0.53	0.062	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Cobalt	11		0.27	0.019	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Copper	23	B	0.53	0.047	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Iron	19000		11	4.4	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Lead	13		0.27	0.079	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Magnesium	23000		5.3	1.1	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Manganese	350	B	0.53	0.029	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Nickel	26	B	0.53	0.052	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Potassium	2400		27	1.6	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Sodium	420		53	7.1	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Thallium	0.62		0.53	0.22	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Vanadium	18		0.27	0.039	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1
Zinc	49		1.1	0.22	mg/Kg	☼	07/30/13 16:30	08/25/13 16:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/28/13 10:00	08/29/13 20:08	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	08/29/13 20:08	1
Manganese	0.53		0.025	0.010	mg/L		08/28/13 10:00	08/29/13 20:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-2

Client Sample ID: 846D-141-B03

Lab Sample ID: 500-60027-12

Date Collected: 07/29/13 09:05

Matrix: Solid

Date Received: 07/29/13 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64	B	0.50	0.010	mg/L		08/08/13 13:00	08/25/13 00:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/25/13 00:08	1
Boron	0.96		0.10	0.050	mg/L		08/08/13 13:00	08/25/13 00:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/25/13 00:08	1
Chromium	0.057		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 00:08	1
Cobalt	0.016	J	0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 00:08	1
Iron	58		0.20	0.20	mg/L		08/08/13 13:00	08/25/13 00:08	1
Lead	0.031		0.0075	0.0050	mg/L		08/08/13 13:00	08/25/13 00:08	1
Manganese	0.27		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 00:08	1
Nickel	0.066		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 00:08	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/25/13 00:08	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 00:08	1
Zinc	0.51		0.10	0.020	mg/L		08/08/13 13:00	08/25/13 00:08	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 17:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 17:59	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020		0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 10:40	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.0089	mg/Kg	✱	08/02/13 14:30	08/05/13 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.64		0.200	0.200	SU			08/10/13 11:14	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-2

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
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.

Glossary

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



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

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

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

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

I. Source Location Information

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

Project Name: FAP 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
10609 to 10749 159th St.

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

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

Latitude: 41.60076 Longitude: -87.87827
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 351 (U.S. 6/IL 7)
 Latitude: 41.60076 Longitude: -87.87827

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 846D-142-B01, -B03, -B04, AND -B05 WERE SAMPLED ADJACENT TO SITE No. 846D-142. SEE FIGURES 7 & 8, AND TABLE 3v OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60027-3

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman (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))

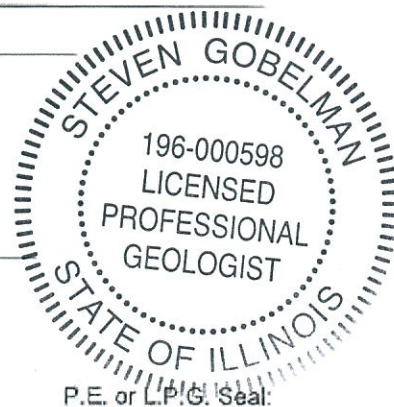
Company Name: Illinois Department of Transportation, Bureau of Design and Environment
 Street Address: 2300 South Dirksen Parkway
 City: Springfield State: IL Zip Code: 62764
 Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

9/20/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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: 500-60027-3
Client Project/Site: IDOT - US 6/IL 7 - WO 022

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
8/30/2013 1:19:06 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

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results through
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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 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-3

Client Sample ID: 846D-142-B01

Lab Sample ID: 500-60027-13

Date Collected: 07/29/13 09:20

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 90.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015		0.0055	0.0024	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Benzene	<0.0055		0.0055	0.00075	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Bromodichloromethane	<0.0055		0.0055	0.00095	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Bromoform	<0.0055		0.0055	0.0013	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Bromomethane	<0.0055		0.0055	0.0017	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Carbon disulfide	<0.0055		0.0055	0.00082	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Carbon tetrachloride	<0.0055		0.0055	0.0010	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Chlorobenzene	<0.0055		0.0055	0.00056	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Chloroethane	<0.0055		0.0055	0.0015	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Chloroform	<0.0055		0.0055	0.00063	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Chloromethane	<0.0055		0.0055	0.0012	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.00078	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.00072	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Dibromochloromethane	<0.0055		0.0055	0.00096	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
1,1-Dichloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
1,1-Dichloroethene	<0.0055		0.0055	0.00089	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
1,2-Dichloropropane	<0.0055		0.0055	0.00083	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.00072	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Ethylbenzene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
2-Hexanone	<0.0055		0.0055	0.0016	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Methylene Chloride	<0.0055		0.0055	0.0015	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0014	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Methyl tert-butyl ether	<0.0055		0.0055	0.00091	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Styrene	<0.0055		0.0055	0.00072	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
1,1,1,2-Tetrachloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Tetrachloroethene	<0.0055		0.0055	0.00084	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Toluene	<0.0055		0.0055	0.00077	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.00076	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.00099	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.00075	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Trichloroethene	<0.0055		0.0055	0.00091	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Vinyl acetate	<0.0055		0.0055	0.00086	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Vinyl chloride	<0.0055		0.0055	0.0012	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1
Xylenes, Total	<0.011		0.011	0.00050	mg/Kg	☼	07/29/13 09:20	08/04/13 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	07/29/13 09:20	08/04/13 16:48	1
Dibromofluoromethane	105		75 - 120	07/29/13 09:20	08/04/13 16:48	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	07/29/13 09:20	08/04/13 16:48	1
Toluene-d8 (Surr)	92		75 - 122	07/29/13 09:20	08/04/13 16:48	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	☼	08/07/13 07:17	08/15/13 17:56	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-3

Client Sample ID: 846D-142-B01

Lab Sample ID: 500-60027-13

Date Collected: 07/29/13 09:20

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 90.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
2-Methylphenol	<0.17		0.17	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Naphthalene	<0.034		0.034	0.0067	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
2,4-Dichlorophenol	<0.34		0.34	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
4-Chloroaniline	<0.70		0.70	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
2,4,5-Trichlorophenol	<0.34		0.34	0.099	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Hexachlorocyclopentadiene	<0.70		0.70	0.16	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
2-Methylnaphthalene	<0.17		0.17	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
4-Chloro-3-methylphenol	<0.34		0.34	0.17	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
3-Nitroaniline	<0.34		0.34	0.067	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
2,4-Dinitrophenol	<0.70		0.70	0.18	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Acenaphthylene	<0.034		0.034	0.0079	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
4-Nitrophenol	<0.70		0.70	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Fluorene	<0.034		0.034	0.0078	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
4-Nitroaniline	<0.34		0.34	0.071	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Hexachlorobenzene	<0.070		0.070	0.0068	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Pentachlorophenol	<0.70		0.70	0.18	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
N-Nitrosodiphenylamine	<0.17		0.17	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.084	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Anthracene	<0.034		0.034	0.0081	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Carbazole	<0.17		0.17	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Di-n-butyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Benzo[a]anthracene	<0.034		0.034	0.0072	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-3

Client Sample ID: 846D-142-B01

Lab Sample ID: 500-60027-13

Date Collected: 07/29/13 09:20

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 90.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.034		0.034	0.0078	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Bis(2-ethylhexyl) phthalate	0.062	J	0.17	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Di-n-octyl phthalate	<0.17		0.17	0.070	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Benzo[b]fluoranthene	<0.034		0.034	0.0067	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Benzo[k]fluoranthene	<0.034		0.034	0.0082	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Benzo[a]pyrene	<0.034		0.034	0.0063	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0096	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
Benzo[g,h,i]perylene	<0.034		0.034	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1
3 & 4 Methylphenol	<0.17		0.17	0.065	mg/Kg	☼	08/07/13 07:17	08/15/13 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		30 - 110	08/07/13 07:17	08/15/13 17:56	1
Phenol-d5	52		31 - 110	08/07/13 07:17	08/15/13 17:56	1
Nitrobenzene-d5	47		30 - 115	08/07/13 07:17	08/15/13 17:56	1
2-Fluorobiphenyl	52		30 - 119	08/07/13 07:17	08/15/13 17:56	1
2,4,6-Tribromophenol	53		35 - 137	08/07/13 07:17	08/15/13 17:56	1
Terphenyl-d14	86		36 - 134	08/07/13 07:17	08/15/13 17:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.40	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Arsenic	11		0.50	0.10	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Barium	46		0.50	0.054	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Beryllium	0.66		0.20	0.018	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Boron	9.8		2.5	0.11	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Cadmium	0.26		0.10	0.013	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Calcium	44000	B	10	2.7	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Chromium	18		0.50	0.058	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Cobalt	11		0.25	0.018	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Copper	21	B	0.50	0.045	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Iron	19000		10	4.1	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Lead	12		0.25	0.075	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Magnesium	22000		5.0	1.0	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Manganese	370	B	0.50	0.027	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Nickel	28	B	0.50	0.049	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Potassium	2500		25	1.5	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Selenium	<0.50		0.50	0.18	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Silver	<0.25		0.25	0.018	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Sodium	280		50	6.7	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Thallium	0.61		0.50	0.21	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Vanadium	19		0.25	0.037	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1
Zinc	43		1.0	0.20	mg/Kg	☼	07/30/13 16:30	08/25/13 16:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/28/13 10:00	08/29/13 20:13	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	08/29/13 20:13	1
Manganese	0.18		0.025	0.010	mg/L		08/28/13 10:00	08/29/13 20:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-3

Client Sample ID: 846D-142-B01

Lab Sample ID: 500-60027-13

Date Collected: 07/29/13 09:20

Matrix: Solid

Date Received: 07/29/13 14:53

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55	B	0.50	0.010	mg/L		08/08/13 13:00	08/25/13 00:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/25/13 00:15	1
Boron	0.81		0.10	0.050	mg/L		08/08/13 13:00	08/25/13 00:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/25/13 00:15	1
Chromium	0.028		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 00:15	1
Cobalt	0.0073	J	0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 00:15	1
Iron	24		0.20	0.20	mg/L		08/08/13 13:00	08/25/13 00:15	1
Lead	0.012		0.0075	0.0050	mg/L		08/08/13 13:00	08/25/13 00:15	1
Manganese	0.16		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 00:15	1
Nickel	0.028		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 00:15	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/25/13 00:15	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 00:15	1
Zinc	0.36		0.10	0.020	mg/L		08/08/13 13:00	08/25/13 00:15	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 18:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 18:03	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000047	J	0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 10:42	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0083	mg/Kg	☆	08/02/13 14:30	08/05/13 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.58		0.200	0.200	SU			08/10/13 11:17	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-3

Client Sample ID: 846D-142-B03

Lab Sample ID: 500-60027-15

Date Collected: 07/29/13 09:45

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 86.6

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	☼	07/29/13 09:45	08/04/13 17:33	1
Benzene	<0.0061		0.0061	0.00083	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Bromodichloromethane	<0.0061		0.0061	0.0010	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Bromoform	<0.0061		0.0061	0.0014	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Bromomethane	<0.0061		0.0061	0.0018	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
2-Butanone (MEK)	<0.0061		0.0061	0.0022	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Carbon disulfide	<0.0061		0.0061	0.00091	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Carbon tetrachloride	<0.0061		0.0061	0.0011	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Chlorobenzene	<0.0061		0.0061	0.00062	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Chloroethane	<0.0061		0.0061	0.0017	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Chloroform	<0.0061		0.0061	0.00070	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Chloromethane	<0.0061		0.0061	0.0013	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
cis-1,2-Dichloroethene	<0.0061		0.0061	0.00086	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
cis-1,3-Dichloropropene	<0.0061		0.0061	0.00080	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Dibromochloromethane	<0.0061		0.0061	0.0011	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
1,1-Dichloroethane	<0.0061		0.0061	0.00096	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
1,2-Dichloroethane	<0.0061		0.0061	0.00090	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
1,1-Dichloroethene	<0.0061		0.0061	0.00098	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
1,2-Dichloropropane	<0.0061		0.0061	0.00092	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
1,3-Dichloropropene, Total	<0.0061		0.0061	0.00080	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Ethylbenzene	<0.0061		0.0061	0.0012	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
2-Hexanone	<0.0061		0.0061	0.0018	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Methylene Chloride	<0.0061		0.0061	0.0016	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
4-Methyl-2-pentanone (MIBK)	<0.0061		0.0061	0.0016	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Methyl tert-butyl ether	<0.0061		0.0061	0.0010	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Styrene	<0.0061		0.0061	0.00080	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
1,1,2,2-Tetrachloroethane	<0.0061		0.0061	0.0012	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Tetrachloroethene	<0.0061		0.0061	0.00093	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Toluene	<0.0061		0.0061	0.00085	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
trans-1,2-Dichloroethene	<0.0061		0.0061	0.00084	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
trans-1,3-Dichloropropene	<0.0061		0.0061	0.0011	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
1,1,1-Trichloroethane	<0.0061		0.0061	0.00091	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
1,1,2-Trichloroethane	<0.0061		0.0061	0.00083	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Trichloroethene	<0.0061		0.0061	0.0010	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Vinyl acetate	<0.0061		0.0061	0.00096	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Vinyl chloride	<0.0061		0.0061	0.0013	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1
Xylenes, Total	<0.012		0.012	0.00055	mg/Kg	☼	07/29/13 09:45	08/04/13 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	07/29/13 09:45	08/04/13 17:33	1
Dibromofluoromethane	109		75 - 120	07/29/13 09:45	08/04/13 17:33	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	07/29/13 09:45	08/04/13 17:33	1
Toluene-d8 (Surr)	92		75 - 122	07/29/13 09:45	08/04/13 17:33	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	☼	08/07/13 07:17	08/15/13 18:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-3

Client Sample ID: 846D-142-B03

Lab Sample ID: 500-60027-15

Date Collected: 07/29/13 09:45

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Naphthalene	<0.037		0.037	0.0073	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Acenaphthylene	<0.037		0.037	0.0087	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.092	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Anthracene	<0.037		0.037	0.0089	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-3

Client Sample ID: 846D-142-B03

Lab Sample ID: 500-60027-15

Date Collected: 07/29/13 09:45

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Bis(2-ethylhexyl) phthalate	0.058	J	0.19	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Benzo[a]pyrene	<0.037		0.037	0.0069	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/07/13 07:17	08/15/13 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	43		30 - 110	08/07/13 07:17	08/15/13 18:35	1
Phenol-d5	50		31 - 110	08/07/13 07:17	08/15/13 18:35	1
Nitrobenzene-d5	42		30 - 115	08/07/13 07:17	08/15/13 18:35	1
2-Fluorobiphenyl	51		30 - 119	08/07/13 07:17	08/15/13 18:35	1
2,4,6-Tribromophenol	67		35 - 137	08/07/13 07:17	08/15/13 18:35	1
Terphenyl-d14	96		36 - 134	08/07/13 07:17	08/15/13 18:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Arsenic	12		0.57	0.11	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Barium	79		0.57	0.061	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Beryllium	0.90		0.23	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Boron	5.8		2.9	0.12	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Cadmium	<0.11		0.11	0.015	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Calcium	1800	B	11	3.1	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Chromium	23		0.57	0.067	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Cobalt	15		0.29	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Copper	33	B	0.57	0.051	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Iron	29000		11	4.7	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Lead	17		0.29	0.085	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Magnesium	4700		5.7	1.2	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Manganese	560	B	0.57	0.031	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Nickel	43	B	0.57	0.056	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Potassium	2000		29	1.7	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Sodium	200		57	7.7	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Thallium	1.1		0.57	0.24	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Vanadium	24		0.29	0.042	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1
Zinc	70		1.1	0.23	mg/Kg	☼	07/30/13 16:30	08/25/13 17:02	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61	B	0.50	0.010	mg/L		08/08/13 13:00	08/25/13 00:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/25/13 00:28	1
Boron	1.0		0.10	0.050	mg/L		08/08/13 13:00	08/25/13 00:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-3

Client Sample ID: 846D-142-B03

Lab Sample ID: 500-60027-15

Date Collected: 07/29/13 09:45

Matrix: Solid

Date Received: 07/29/13 14:53

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/25/13 00:28	1
Chromium	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 00:28	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 00:28	1
Iron	0.83		0.20	0.20	mg/L		08/08/13 13:00	08/25/13 00:28	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/08/13 13:00	08/25/13 00:28	1
Manganese	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 00:28	1
Nickel	<0.025		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 00:28	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/25/13 00:28	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 00:28	1
Zinc	0.39		0.10	0.020	mg/L		08/08/13 13:00	08/25/13 00:28	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 18:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 18:05	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 10:46	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.0090	mg/Kg	☆	08/02/13 14:30	08/05/13 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.63		0.200	0.200	SU			08/10/13 11:22	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-3

Client Sample ID: 846D-142-B04

Lab Sample ID: 500-60027-16

Date Collected: 07/29/13 09:50

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 84.6

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	☼	07/29/13 09:50	08/04/13 18:01	1
Benzene	<0.0051		0.0051	0.00071	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Bromodichloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Bromomethane	<0.0051		0.0051	0.0016	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
2-Butanone (MEK)	<0.0051		0.0051	0.0019	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Carbon disulfide	<0.0051		0.0051	0.00077	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Carbon tetrachloride	<0.0051		0.0051	0.00094	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00073	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00068	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Dibromochloromethane	<0.0051		0.0051	0.00090	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
1,1-Dichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00068	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Styrene	<0.0051		0.0051	0.00068	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Tetrachloroethene	<0.0051		0.0051	0.00079	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00077	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Trichloroethene	<0.0051		0.0051	0.00085	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Vinyl acetate	<0.0051		0.0051	0.00081	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	07/29/13 09:50	08/04/13 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	07/29/13 09:50	08/04/13 18:01	1
Dibromofluoromethane	98		75 - 120	07/29/13 09:50	08/04/13 18:01	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	07/29/13 09:50	08/04/13 18:01	1
Toluene-d8 (Surr)	99		75 - 122	07/29/13 09:50	08/04/13 18:01	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	☼	08/07/13 07:17	08/15/13 18:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-3

Client Sample ID: 846D-142-B04

Lab Sample ID: 500-60027-16

Date Collected: 07/29/13 09:50

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Dibenzofuran	<0.19		0.19	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Phenanthrene	0.12		0.039	0.016	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Anthracene	0.015 J		0.039	0.0091	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Carbazole	<0.19		0.19	0.055	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Fluoranthene	0.23		0.039	0.016	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Pyrene	0.22		0.039	0.014	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Butyl benzyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Benzo[a]anthracene	0.099		0.039	0.0081	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-3

Client Sample ID: 846D-142-B04

Lab Sample ID: 500-60027-16

Date Collected: 07/29/13 09:50

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.12		0.039	0.0088	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Bis(2-ethylhexyl) phthalate	0.12	J	0.19	0.051	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Benzo[b]fluoranthene	0.19		0.039	0.0075	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Benzo[k]fluoranthene	0.057		0.039	0.0092	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Benzo[a]pyrene	0.10		0.039	0.0071	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Indeno[1,2,3-cd]pyrene	0.047		0.039	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Dibenz(a,h)anthracene	0.021	J	0.039	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Benzo[g,h,i]perylene	0.050		0.039	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	08/07/13 07:17	08/15/13 18:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	33		30 - 110				08/07/13 07:17	08/15/13 18:55	1
Phenol-d5	41		31 - 110				08/07/13 07:17	08/15/13 18:55	1
Nitrobenzene-d5	38		30 - 115				08/07/13 07:17	08/15/13 18:55	1
2-Fluorobiphenyl	48		30 - 119				08/07/13 07:17	08/15/13 18:55	1
2,4,6-Tribromophenol	65		35 - 137				08/07/13 07:17	08/15/13 18:55	1
Terphenyl-d14	85		36 - 134				08/07/13 07:17	08/15/13 18:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Arsenic	6.4		0.58	0.12	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Barium	60		0.58	0.062	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Beryllium	0.66		0.23	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Boron	7.5		2.9	0.12	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Cadmium	0.24		0.12	0.015	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Calcium	35000	B	12	3.1	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Chromium	18		0.58	0.067	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Cobalt	9.0		0.29	0.021	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Copper	21	B	0.58	0.051	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Iron	18000		12	4.8	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Lead	18		0.29	0.086	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Magnesium	18000		5.8	1.2	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Manganese	370	B	0.58	0.031	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Nickel	24	B	0.58	0.057	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Potassium	2200		29	1.7	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Sodium	370		58	7.8	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Thallium	0.96		0.58	0.24	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Vanadium	20		0.29	0.043	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1
Zinc	50		1.2	0.23	mg/Kg	☼	07/30/13 16:30	08/25/13 17:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/28/13 10:00	08/29/13 20:31	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	08/29/13 20:31	1
Manganese	0.014	J	0.025	0.010	mg/L		08/28/13 10:00	08/29/13 20:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-3

Client Sample ID: 846D-142-B04

Lab Sample ID: 500-60027-16

Date Collected: 07/29/13 09:50

Matrix: Solid

Date Received: 07/29/13 14:53

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68	B	0.50	0.010	mg/L		08/08/13 13:00	08/25/13 01:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/25/13 01:09	1
Boron	0.84		0.10	0.050	mg/L		08/08/13 13:00	08/25/13 01:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/25/13 01:09	1
Chromium	0.067		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 01:09	1
Cobalt	0.017	J	0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 01:09	1
Iron	61		0.20	0.20	mg/L		08/08/13 13:00	08/25/13 01:09	1
Lead	0.036		0.0075	0.0050	mg/L		08/08/13 13:00	08/25/13 01:09	1
Manganese	0.31		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 01:09	1
Nickel	0.067		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 01:09	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/25/13 01:09	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 01:09	1
Zinc	0.50		0.10	0.020	mg/L		08/08/13 13:00	08/25/13 01:09	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 18:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 18:08	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000083	J	0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 10:48	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0084	mg/Kg	☆	08/02/13 14:30	08/05/13 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.46		0.200	0.200	SU			08/10/13 11:25	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-3

Client Sample ID: 846D-142-B05

Lab Sample ID: 500-60027-17

Date Collected: 07/29/13 10:05

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Phenanthrene	0.020	J	0.037	0.016	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Fluoranthene	0.042		0.037	0.015	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Pyrene	0.041		0.037	0.014	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Benzo[a]anthracene	0.029	J	0.037	0.0078	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-3

Client Sample ID: 846D-142-B05

Lab Sample ID: 500-60027-17

Date Collected: 07/29/13 10:05

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.034	J	0.037	0.0085	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Bis(2-ethylhexyl) phthalate	0.062	J	0.19	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Benzo[b]fluoranthene	0.050		0.037	0.0073	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Benzo[k]fluoranthene	0.021	J	0.037	0.0089	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Benzo[a]pyrene	0.032	J	0.037	0.0068	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Indeno[1,2,3-cd]pyrene	0.020	J	0.037	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
Benzo[g,h,i]perylene	0.018	J	0.037	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/07/13 07:17	08/15/13 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		30 - 110	08/07/13 07:17	08/15/13 19:14	1
Phenol-d5	74		31 - 110	08/07/13 07:17	08/15/13 19:14	1
Nitrobenzene-d5	61		30 - 115	08/07/13 07:17	08/15/13 19:14	1
2-Fluorobiphenyl	72		30 - 119	08/07/13 07:17	08/15/13 19:14	1
2,4,6-Tribromophenol	81		35 - 137	08/07/13 07:17	08/15/13 19:14	1
Terphenyl-d14	112		36 - 134	08/07/13 07:17	08/15/13 19:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Arsenic	6.6		0.58	0.11	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Barium	37		0.58	0.062	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Beryllium	0.69		0.23	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Boron	10		2.9	0.12	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Cadmium	0.24		0.12	0.015	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Calcium	40000	B	12	3.1	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Chromium	19		0.58	0.067	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Cobalt	14		0.29	0.021	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Copper	21	B	0.58	0.051	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Iron	20000		12	4.7	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Lead	11		0.29	0.086	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Magnesium	22000		5.8	1.2	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Manganese	410	B	0.58	0.031	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Nickel	28	B	0.58	0.057	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Potassium	2700		29	1.7	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Selenium	<0.58		0.58	0.20	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Sodium	280		58	7.7	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Thallium	0.74		0.58	0.24	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Vanadium	19		0.29	0.043	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1
Zinc	46		1.2	0.23	mg/Kg	☼	07/30/13 16:30	08/25/13 17:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.31		0.20	0.20	mg/L		08/28/13 10:00	08/29/13 20:36	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	08/29/13 20:36	1
Manganese	0.42		0.025	0.010	mg/L		08/28/13 10:00	08/29/13 20:36	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-3

Client Sample ID: 846D-142-B05

Lab Sample ID: 500-60027-17

Date Collected: 07/29/13 10:05

Matrix: Solid

Date Received: 07/29/13 14:53

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.63	B	0.50	0.010	mg/L		08/08/13 13:00	08/25/13 01:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/25/13 01:15	1
Boron	0.91		0.10	0.050	mg/L		08/08/13 13:00	08/25/13 01:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/25/13 01:15	1
Chromium	0.045		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 01:15	1
Cobalt	0.012	J	0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 01:15	1
Iron	41		0.20	0.20	mg/L		08/08/13 13:00	08/25/13 01:15	1
Lead	0.023		0.0075	0.0050	mg/L		08/08/13 13:00	08/25/13 01:15	1
Manganese	0.29		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 01:15	1
Nickel	0.046		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 01:15	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/25/13 01:15	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 01:15	1
Zinc	0.44		0.10	0.020	mg/L		08/08/13 13:00	08/25/13 01:15	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 18:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 18:09	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000095	J	0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 10:50	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0086	mg/Kg	☼	08/02/13 14:30	08/05/13 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.44		0.200	0.200	SU			08/10/13 11:27	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

10700 159th Street

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60108 Longitude: -87.87714
(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: 0312315045 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (U.S. 6/IL 7)
 Latitude: 41.60108 Longitude: -87.87714

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 846D-143-B02 & -B03 WERE SAMPLED ADJACENT TO SITE No. 846D-143. SEE FIGURE 8 AND TABLE 3w OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-60027-4

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman (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))

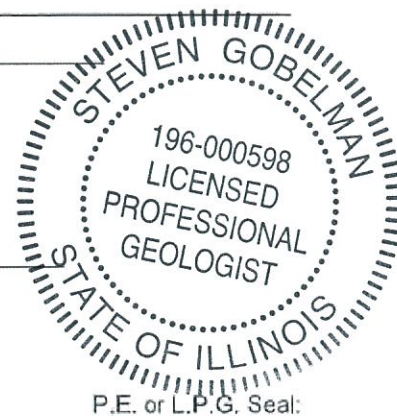
Company Name: Illinois Department of Transportation, Bureau of Design and Environment
 Street Address: 2300 South Dirksen Parkway
 City: Springfield State: IL Zip Code: 62764
 Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

9/20/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-143
Storage Mart**

Sample ID	846D-143-B02	846D-143-B02 DUP	846D-143-B03									
Sample Depth (ft)	0-1.5	0-1.5	0-1.5									
Sample Date	7/29/2013	7/29/2013	7/29/2013									
PID	0	0	0									
Sample pH	8.24	8.37	8.38									
Matrix	Soil	Soil	Soil									
Semivolatile Organic Compounds (mg/kg)												
Benzo(a)pyrene	J 0.018	ND	0.11	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: 500-60027-4
Client Project/Site: IDOT - US 6/IL 7 - WO 022

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
8/30/2013 2:36:04 PM

Richard Wright, Project Manager II
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 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-4

Client Sample ID: 846D-143-B02

Lab Sample ID: 500-60027-19

Date Collected: 07/29/13 10:25

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 89.4

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	☼	07/29/13 10:25	08/04/13 19:09	1
Benzene	<0.0053		0.0053	0.00072	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Bromodichloromethane	<0.0053		0.0053	0.00091	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Carbon disulfide	<0.0053		0.0053	0.00079	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Carbon tetrachloride	<0.0053		0.0053	0.00096	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Chlorobenzene	<0.0053		0.0053	0.00054	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Chloroethane	<0.0053		0.0053	0.0014	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00069	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Dibromochloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
1,1-Dichloroethane	<0.0053		0.0053	0.00083	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
1,1-Dichloroethene	<0.0053		0.0053	0.00085	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
1,2-Dichloropropane	<0.0053		0.0053	0.00080	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00069	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00087	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Styrene	<0.0053		0.0053	0.00069	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
1,1,1,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Tetrachloroethene	<0.0053		0.0053	0.00081	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Toluene	<0.0053		0.0053	0.00074	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00095	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Trichloroethene	<0.0053		0.0053	0.00087	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Vinyl acetate	<0.0053		0.0053	0.00083	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	07/29/13 10:25	08/04/13 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	07/29/13 10:25	08/04/13 19:09	1
Dibromofluoromethane	96		75 - 120	07/29/13 10:25	08/04/13 19:09	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	07/29/13 10:25	08/04/13 19:09	1
Toluene-d8 (Surr)	97		75 - 122	07/29/13 10:25	08/04/13 19:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-4

Client Sample ID: 846D-143-B02

Lab Sample ID: 500-60027-19

Date Collected: 07/29/13 10:25

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Fluoranthene	0.025	J	0.037	0.015	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Pyrene	0.022	J	0.037	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Benzo[a]anthracene	0.015	J	0.037	0.0078	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-4

Client Sample ID: 846D-143-B02

Lab Sample ID: 500-60027-19

Date Collected: 07/29/13 10:25

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.018	J	0.037	0.0084	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Bis(2-ethylhexyl) phthalate	0.051	J	0.19	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Benzo[b]fluoranthene	0.027	J	0.037	0.0072	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Benzo[a]pyrene	0.018	J	0.037	0.0068	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Indeno[1,2,3-cd]pyrene	0.015	J	0.037	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	08/07/13 07:17	08/15/13 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		30 - 110				08/07/13 07:17	08/15/13 19:53	1
Phenol-d5	60		31 - 110				08/07/13 07:17	08/15/13 19:53	1
Nitrobenzene-d5	50		30 - 115				08/07/13 07:17	08/15/13 19:53	1
2-Fluorobiphenyl	62		30 - 119				08/07/13 07:17	08/15/13 19:53	1
2,4,6-Tribromophenol	68		35 - 137				08/07/13 07:17	08/15/13 19:53	1
Terphenyl-d14	101		36 - 134				08/07/13 07:17	08/15/13 19:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.41	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Arsenic	6.2		0.51	0.10	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Barium	45		0.51	0.055	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Beryllium	0.64		0.20	0.018	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Boron	9.7		2.6	0.11	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Cadmium	0.27		0.10	0.013	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Calcium	50000	B	10	2.8	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Chromium	18		0.51	0.059	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Cobalt	9.6		0.26	0.018	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Copper	19	B	0.51	0.045	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Iron	18000		10	4.2	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Lead	11		0.26	0.076	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Magnesium	22000		5.1	1.1	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Manganese	360	B	0.51	0.028	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Nickel	26	B	0.51	0.050	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Potassium	2600		26	1.5	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Selenium	<0.51		0.51	0.18	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Silver	<0.26		0.26	0.018	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Sodium	260		51	6.8	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Thallium	0.64		0.51	0.22	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Vanadium	18		0.26	0.038	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1
Zinc	44		1.0	0.21	mg/Kg	☼	07/30/13 16:30	08/25/13 17:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.36		0.20	0.20	mg/L		08/28/13 10:00	08/29/13 20:47	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	08/29/13 20:47	1
Manganese	0.17		0.025	0.010	mg/L		08/28/13 10:00	08/29/13 20:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-4

Client Sample ID: 846D-143-B02

Lab Sample ID: 500-60027-19

Date Collected: 07/29/13 10:25

Matrix: Solid

Date Received: 07/29/13 14:53

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60	B	0.50	0.010	mg/L		08/08/13 13:00	08/25/13 01:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/25/13 01:28	1
Boron	0.77		0.10	0.050	mg/L		08/08/13 13:00	08/25/13 01:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/25/13 01:28	1
Chromium	0.041		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 01:28	1
Cobalt	0.0097	J	0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 01:28	1
Iron	37		0.20	0.20	mg/L		08/08/13 13:00	08/25/13 01:28	1
Lead	0.018		0.0075	0.0050	mg/L		08/08/13 13:00	08/25/13 01:28	1
Manganese	0.26		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 01:28	1
Nickel	0.041		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 01:28	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/25/13 01:28	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 01:28	1
Zinc	0.38		0.10	0.020	mg/L		08/08/13 13:00	08/25/13 01:28	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 18:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 18:11	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000051	J	0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 10:54	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0085	mg/Kg	✱	08/02/13 14:30	08/05/13 11:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU			08/10/13 11:32	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-4

Client Sample ID: 846D-143-B02 DUP

Lab Sample ID: 500-60027-20

Date Collected: 07/29/13 10:30

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	07/29/13 10:30	08/04/13 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	07/29/13 10:30	08/04/13 19:32	1
Dibromofluoromethane	96		75 - 120	07/29/13 10:30	08/04/13 19:32	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	07/29/13 10:30	08/04/13 19:32	1
Toluene-d8 (Surr)	99		75 - 122	07/29/13 10:30	08/04/13 19:32	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	☼	08/07/13 07:17	08/15/13 20:13	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-4

Client Sample ID: 846D-143-B02 DUP

Lab Sample ID: 500-60027-20

Date Collected: 07/29/13 10:30

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Hexachlorobenzene	<0.073		0.073	0.0072	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-4

Client Sample ID: 846D-143-B02 DUP

Lab Sample ID: 500-60027-20

Date Collected: 07/29/13 10:30

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Bis(2-ethylhexyl) phthalate	0.048	J	0.18	0.048	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	08/07/13 07:17	08/15/13 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		30 - 110				08/07/13 07:17	08/15/13 20:13	1
Phenol-d5	62		31 - 110				08/07/13 07:17	08/15/13 20:13	1
Nitrobenzene-d5	58		30 - 115				08/07/13 07:17	08/15/13 20:13	1
2-Fluorobiphenyl	64		30 - 119				08/07/13 07:17	08/15/13 20:13	1
2,4,6-Tribromophenol	67		35 - 137				08/07/13 07:17	08/15/13 20:13	1
Terphenyl-d14	104		36 - 134				08/07/13 07:17	08/15/13 20:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Arsenic	5.6		0.56	0.11	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Barium	39		0.56	0.060	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Beryllium	0.63		0.22	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Boron	10		2.8	0.12	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Cadmium	0.25		0.11	0.014	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Calcium	49000	B	11	3.0	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Chromium	18		0.56	0.065	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Cobalt	6.8		0.28	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Copper	22	B	0.56	0.050	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Iron	18000		11	4.6	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Lead	13		0.28	0.083	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Magnesium	25000		5.6	1.2	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Manganese	310	B	0.56	0.030	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Nickel	25	B	0.56	0.055	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Potassium	2800		28	1.7	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Sodium	270		56	7.5	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Thallium	0.52	J	0.56	0.24	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Vanadium	18		0.28	0.041	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1
Zinc	47		1.1	0.23	mg/Kg	☼	07/30/13 16:30	08/25/13 17:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/28/13 10:00	08/29/13 20:52	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	08/29/13 20:52	1
Manganese	0.44		0.025	0.010	mg/L		08/28/13 10:00	08/29/13 20:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-4

Client Sample ID: 846D-143-B02 DUP

Lab Sample ID: 500-60027-20

Date Collected: 07/29/13 10:30

Matrix: Solid

Date Received: 07/29/13 14:53

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55	B	0.50	0.010	mg/L		08/08/13 13:00	08/25/13 01:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/25/13 01:35	1
Boron	0.79		0.10	0.050	mg/L		08/08/13 13:00	08/25/13 01:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/25/13 01:35	1
Chromium	0.035		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 01:35	1
Cobalt	0.0082	J	0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 01:35	1
Iron	30		0.20	0.20	mg/L		08/08/13 13:00	08/25/13 01:35	1
Lead	0.016		0.0075	0.0050	mg/L		08/08/13 13:00	08/25/13 01:35	1
Manganese	0.18		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 01:35	1
Nickel	0.032		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 01:35	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/25/13 01:35	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 01:35	1
Zinc	0.38		0.10	0.020	mg/L		08/08/13 13:00	08/25/13 01:35	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 18:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 18:14	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000055	J	0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 10:56	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0079	mg/Kg	☆	08/02/13 14:30	08/05/13 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.37		0.200	0.200	SU			08/10/13 11:35	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-4

Client Sample ID: 846D-143-B03

Lab Sample ID: 500-60027-21

Date Collected: 07/29/13 10:15

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 83.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.0047	0.0020	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1
Xylenes, Total	<0.0094		0.0094	0.00042	mg/Kg	☼	07/29/13 10:15	08/04/13 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	07/29/13 10:15	08/04/13 19:55	1
Dibromofluoromethane	95		75 - 120	07/29/13 10:15	08/04/13 19:55	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	07/29/13 10:15	08/04/13 19:55	1
Toluene-d8 (Surr)	97		75 - 122	07/29/13 10:15	08/04/13 19:55	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	☼	08/07/13 07:10	08/13/13 12:46	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-4

Client Sample ID: 846D-143-B03

Lab Sample ID: 500-60027-21

Date Collected: 07/29/13 10:15

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
4-Nitrophenol	<0.77		0.77	0.20	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Phenanthrene	0.079		0.038	0.016	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Anthracene	0.019 J		0.038	0.0089	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Fluoranthene	0.21		0.038	0.016	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Pyrene	0.20		0.038	0.014	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Benzo[a]anthracene	0.11		0.038	0.0080	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-4

Client Sample ID: 846D-143-B03

Lab Sample ID: 500-60027-21

Date Collected: 07/29/13 10:15

Matrix: Solid

Date Received: 07/29/13 14:53

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.14		0.038	0.0086	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Benzo[b]fluoranthene	0.19		0.038	0.0074	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Benzo[k]fluoranthene	0.061		0.038	0.0091	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Benzo[a]pyrene	0.11		0.038	0.0069	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Indeno[1,2,3-cd]pyrene	0.066		0.038	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Dibenz(a,h)anthracene	0.025	J	0.038	0.011	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Benzo[g,h,i]perylene	0.078		0.038	0.013	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/07/13 07:10	08/13/13 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	36		30 - 110				08/07/13 07:10	08/13/13 12:46	1
Phenol-d5	42		31 - 110				08/07/13 07:10	08/13/13 12:46	1
Nitrobenzene-d5	46		30 - 115				08/07/13 07:10	08/13/13 12:46	1
2-Fluorobiphenyl	57		30 - 119				08/07/13 07:10	08/13/13 12:46	1
2,4,6-Tribromophenol	67		35 - 137				08/07/13 07:10	08/13/13 12:46	1
Terphenyl-d14	80		36 - 134				08/07/13 07:10	08/13/13 12:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Arsenic	10		0.59	0.12	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Barium	73		0.59	0.063	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Beryllium	0.65		0.24	0.021	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Boron	5.8	B	2.9	0.12	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Cadmium	0.44		0.12	0.015	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Calcium	12000	B	12	3.2	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Chromium	19		0.59	0.068	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Cobalt	15		0.29	0.021	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Copper	29	B	0.59	0.052	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Iron	21000		12	4.8	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Lead	73		0.29	0.088	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Magnesium	8200		5.9	1.2	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Manganese	390		0.59	0.032	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Nickel	35		0.59	0.058	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Potassium	1500	B	29	1.8	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Selenium	0.62		0.59	0.21	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Sodium	160	B	59	7.9	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Thallium	0.35	J	0.59	0.25	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Vanadium	22		0.29	0.044	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1
Zinc	110	B	1.2	0.24	mg/Kg	☼	07/30/13 17:30	08/11/13 07:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/28/13 10:00	08/29/13 20:57	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/28/13 10:00	08/29/13 20:57	1
Manganese	0.18		0.025	0.010	mg/L		08/28/13 10:00	08/29/13 20:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-4

Client Sample ID: 846D-143-B03

Lab Sample ID: 500-60027-21

Date Collected: 07/29/13 10:15

Matrix: Solid

Date Received: 07/29/13 14:53

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.65	B	0.50	0.010	mg/L		08/08/13 13:00	08/25/13 01:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/13 13:00	08/25/13 01:41	1
Boron	0.87		0.10	0.050	mg/L		08/08/13 13:00	08/25/13 01:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/13 13:00	08/25/13 01:41	1
Chromium	0.047		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 01:41	1
Cobalt	0.012	J	0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 01:41	1
Iron	48		0.20	0.20	mg/L		08/08/13 13:00	08/25/13 01:41	1
Lead	0.059		0.0075	0.0050	mg/L		08/08/13 13:00	08/25/13 01:41	1
Manganese	0.17		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 01:41	1
Nickel	0.052		0.025	0.010	mg/L		08/08/13 13:00	08/25/13 01:41	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/13 13:00	08/25/13 01:41	1
Silver	<0.025		0.025	0.0050	mg/L		08/08/13 13:00	08/25/13 01:41	1
Zinc	0.49		0.10	0.020	mg/L		08/08/13 13:00	08/25/13 01:41	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		08/08/13 13:00	08/09/13 18:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/13 13:00	08/09/13 18:15	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	J	0.00020	0.000020	mg/L		08/08/13 16:00	08/09/13 11:02	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.019	0.0088	mg/Kg	☆	08/01/13 14:00	08/02/13 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.38		0.200	0.200	SU			08/10/13 11:38	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-60027-4

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

9940 to 10600 159th Street

City: Orland Park State: IL Zip Code: 60462

County: Cook Township: Orland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60131 Longitude: -87.86521
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (U.S. 6/IL 7)Latitude: 41.60131 Longitude: -87.86521Uncontaminated 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 846D-145-B01 & -B02 WERE SAMPLED ADJACENT TO SITE No. 846D-145. SEE FIGURES 10 & 11, AND TABLE 3x OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59862-8

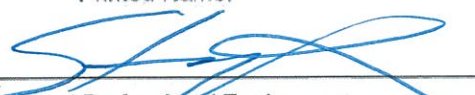
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman (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))

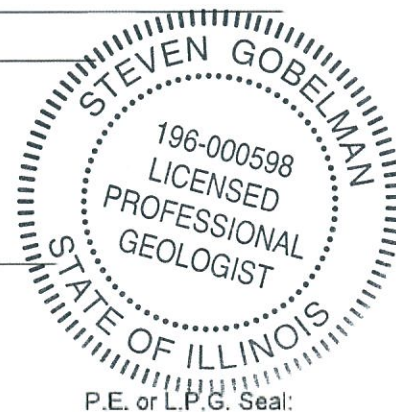
Company Name: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

8/20/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-145

Vacant, Residential and Lake

Sample ID	846D-145-B01	846D-145-B02									
Sample Depth (ft)	0-1	0-1									
Sample Date	7/25/2013	7/25/2013									
PID	0	0									
Sample pH	7.77	8.65									
Matrix	Soil	Soil									
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)pyrene	0.1	1.2	0.11	1.2	0.09	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: 500-59862-8
Client Project/Site: IDOT - US 6/IL 7 - WO 022

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
8/19/2013 5:41:02 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

LINKS

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results through
TotalAccess

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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 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-8

Client Sample ID: 846D-145-B01

Lab Sample ID: 500-59862-18

Date Collected: 07/25/13 13:45

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 74.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0077		0.0077	0.0011	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Bromodichloromethane	<0.0077		0.0077	0.0013	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Bromoform	<0.0077		0.0077	0.0018	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Bromomethane	<0.0077		0.0077	0.0023	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
2-Butanone (MEK)	0.080		0.0077	0.0028	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Carbon disulfide	<0.0077		0.0077	0.0011	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Carbon tetrachloride	<0.0077		0.0077	0.0014	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Chlorobenzene	<0.0077		0.0077	0.00078	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Chloroethane	<0.0077		0.0077	0.0021	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Chloroform	<0.0077		0.0077	0.00088	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Chloromethane	<0.0077		0.0077	0.0016	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
cis-1,2-Dichloroethene	<0.0077		0.0077	0.0011	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
cis-1,3-Dichloropropene	<0.0077		0.0077	0.0010	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Dibromochloromethane	<0.0077		0.0077	0.0013	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
1,1-Dichloroethane	<0.0077		0.0077	0.0012	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
1,2-Dichloroethane	<0.0077		0.0077	0.0011	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
1,1-Dichloroethene	<0.0077		0.0077	0.0012	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
1,2-Dichloropropane	<0.0077		0.0077	0.0012	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
1,3-Dichloropropene, Total	<0.0077		0.0077	0.0010	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Ethylbenzene	<0.0077		0.0077	0.0016	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
2-Hexanone	<0.0077		0.0077	0.0022	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Methylene Chloride	<0.0077		0.0077	0.0021	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
4-Methyl-2-pentanone (MIBK)	<0.0077		0.0077	0.0020	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Methyl tert-butyl ether	<0.0077		0.0077	0.0013	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Styrene	<0.0077		0.0077	0.0010	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
1,1,1,2-Tetrachloroethane	<0.0077		0.0077	0.0016	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Tetrachloroethene	<0.0077		0.0077	0.0012	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Toluene	<0.0077		0.0077	0.0011	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
trans-1,2-Dichloroethene	<0.0077		0.0077	0.0011	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
trans-1,3-Dichloropropene	<0.0077		0.0077	0.0014	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
1,1,1-Trichloroethane	<0.0077		0.0077	0.0011	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
1,1,1,2-Trichloroethane	<0.0077		0.0077	0.0010	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Trichloroethene	<0.0077		0.0077	0.0013	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Vinyl acetate	<0.0077		0.0077	0.0012	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Vinyl chloride	<0.0077		0.0077	0.0016	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1
Xylenes, Total	<0.015		0.015	0.00070	mg/Kg	☼	07/25/13 13:45	08/05/13 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	07/25/13 13:45	08/05/13 14:59	1
Dibromofluoromethane	108		75 - 120	07/25/13 13:45	08/05/13 14:59	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	07/25/13 13:45	08/05/13 14:59	1
Toluene-d8 (Surr)	98		75 - 122	07/25/13 13:45	08/05/13 14:59	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.63		0.49	0.13	mg/Kg	☼	07/25/13 13:45	08/06/13 23:35	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 120	07/25/13 13:45	08/06/13 23:35	50
Dibromofluoromethane	92		75 - 120	07/25/13 13:45	08/06/13 23:35	50

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-8

Client Sample ID: 846D-145-B01

Lab Sample ID: 500-59862-18

Date Collected: 07/25/13 13:45

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 74.1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 125	07/25/13 13:45	08/06/13 23:35	50
Toluene-d8 (Surr)	91		75 - 120	07/25/13 13:45	08/06/13 23:35	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.068	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
1,3-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
1,4-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
1,2-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
2-Methylphenol	<0.21		0.21	0.057	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.054	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
2-Chlorophenol	<0.21		0.21	0.061	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Nitrobenzene	<0.042	*	0.042	0.013	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Bis(2-chloroethoxy)methane	<0.21	*	0.21	0.047	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
1,2,4-Trichlorobenzene	<0.21	*	0.21	0.048	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Hexachlorobutadiene	<0.21		0.21	0.056	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Naphthalene	0.098		0.042	0.0082	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
2,4-Dichlorophenol	<0.42	*	0.42	0.13	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
4-Chloroaniline	<0.86		0.86	0.13	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
2,4,6-Trichlorophenol	<0.42		0.42	0.054	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Hexachlorocyclopentadiene	<0.86		0.86	0.20	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
2-Methylnaphthalene	<0.21		0.21	0.055	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
2-Nitroaniline	<0.21		0.21	0.077	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
2-Chloronaphthalene	<0.21		0.21	0.048	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
2,6-Dinitrotoluene	<0.21		0.21	0.051	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
2-Nitrophenol	<0.42	*	0.42	0.067	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
3-Nitroaniline	<0.42		0.42	0.082	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
2,4-Dinitrophenol	<0.86		0.86	0.22	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Acenaphthylene	<0.042		0.042	0.0098	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Acenaphthene	0.025	J	0.042	0.013	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Dibenzofuran	<0.21		0.21	0.051	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
4-Nitrophenol	<0.86		0.86	0.23	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Fluorene	0.025	J	0.042	0.0097	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
4-Nitroaniline	<0.42		0.42	0.087	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Hexachlorobenzene	<0.086		0.086	0.0084	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Diethyl phthalate	<0.21	*	0.21	0.071	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
4-Chlorophenyl phenyl ether	<0.21	*	0.21	0.067	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Pentachlorophenol	<0.86		0.86	0.22	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
N-Nitrosodiphenylamine	<0.21		0.21	0.058	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-8

Client Sample ID: 846D-145-B01

Lab Sample ID: 500-59862-18

Date Collected: 07/25/13 13:45

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 74.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Phenanthrene	0.16		0.042	0.018	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Anthracene	0.032	J	0.042	0.010	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Carbazole	<0.21		0.21	0.060	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Di-n-butyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Fluoranthene	0.26		0.042	0.017	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Pyrene	0.22		0.042	0.015	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Butyl benzyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Benzo[a]anthracene	0.12		0.042	0.0089	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Chrysene	0.13		0.042	0.0096	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.036	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.056	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Di-n-octyl phthalate	<0.21		0.21	0.087	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Benzo[b]fluoranthene	0.20		0.042	0.0083	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Benzo[k]fluoranthene	0.071		0.042	0.010	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Benzo[a]pyrene	0.10		0.042	0.0078	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Indeno[1,2,3-cd]pyrene	0.057		0.042	0.014	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Dibenz(a,h)anthracene	0.026	J	0.042	0.012	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
Benzo[g,h,i]perylene	0.061		0.042	0.014	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1
3 & 4 Methylphenol	<0.21		0.21	0.081	mg/Kg	☼	08/04/13 20:16	08/09/13 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	44		30 - 110	08/04/13 20:16	08/09/13 16:58	1
Phenol-d5	56		31 - 110	08/04/13 20:16	08/09/13 16:58	1
Nitrobenzene-d5	43		30 - 115	08/04/13 20:16	08/09/13 16:58	1
2-Fluorobiphenyl	60		30 - 119	08/04/13 20:16	08/09/13 16:58	1
2,4,6-Tribromophenol	66		35 - 137	08/04/13 20:16	08/09/13 16:58	1
Terphenyl-d14	80		36 - 134	08/04/13 20:16	08/09/13 16:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J	1.3	0.52	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Arsenic	4.8		0.65	0.13	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Barium	43		0.65	0.070	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Beryllium	0.30		0.26	0.023	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Boron	8.6	B	3.2	0.14	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Cadmium	0.73		0.13	0.017	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Calcium	71000	B	130	35	mg/Kg	☼	07/28/13 17:00	08/13/13 07:45	10
Chromium	12		0.65	0.075	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Cobalt	4.7		0.32	0.023	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Copper	17	B	0.65	0.058	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Iron	8400	B	13	5.3	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Lead	30		0.32	0.097	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Magnesium	28000	B	6.5	1.3	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Manganese	240	B	0.65	0.035	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Nickel	14		0.65	0.064	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Potassium	720	B	32	2.0	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Selenium	1.1		0.65	0.23	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Silver	0.10	J	0.32	0.024	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Sodium	230		65	8.7	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-8

Client Sample ID: 846D-145-B01

Lab Sample ID: 500-59862-18

Date Collected: 07/25/13 13:45

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 74.1

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.65		0.65	0.27	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Vanadium	9.5		0.32	0.048	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1
Zinc	51 B		1.3	0.26	mg/Kg	☼	07/28/13 17:00	08/07/13 22:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 14:17	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.010	mg/L		07/30/13 10:30	08/07/13 18:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 18:37	1
Boron	0.94		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 18:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 18:37	1
Chromium	<0.025		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:37	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 18:37	1
Iron	3.6		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 18:37	1
Lead	0.0094		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 18:37	1
Manganese	0.059		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:37	1
Nickel	<0.025		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:37	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 18:37	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 18:37	1
Zinc	0.39		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 18:37	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 16:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 16:03	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 12:09	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.020	0.0094	mg/Kg	☼	07/30/13 17:45	07/31/13 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77		0.200	0.200	SU			08/08/13 17:40	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-8

Client Sample ID: 846D-145-B02

Lab Sample ID: 500-59862-19

Date Collected: 07/25/13 15:10

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 78.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025		0.0055	0.0024	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Benzene	<0.0055		0.0055	0.00075	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Bromodichloromethane	<0.0055		0.0055	0.00094	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Bromoform	<0.0055		0.0055	0.0013	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Bromomethane	<0.0055		0.0055	0.0017	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Carbon disulfide	<0.0055		0.0055	0.00082	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Carbon tetrachloride	<0.0055		0.0055	0.0010	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Chlorobenzene	<0.0055		0.0055	0.00055	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Chloroethane	<0.0055		0.0055	0.0015	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Chloroform	<0.0055		0.0055	0.00063	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Chloromethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.00077	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.00072	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Dibromochloromethane	<0.0055		0.0055	0.00095	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
1,1-Dichloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
1,1-Dichloroethene	<0.0055		0.0055	0.00088	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
1,2-Dichloropropane	<0.0055		0.0055	0.00083	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.00072	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Ethylbenzene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
2-Hexanone	<0.0055		0.0055	0.0016	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Methylene Chloride	<0.0055		0.0055	0.0015	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0014	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Methyl tert-butyl ether	<0.0055		0.0055	0.00090	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Styrene	<0.0055		0.0055	0.00072	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
1,1,1,2-Tetrachloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Tetrachloroethene	<0.0055		0.0055	0.00084	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Toluene	<0.0055		0.0055	0.00077	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.00075	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.00098	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.00075	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Trichloroethene	<0.0055		0.0055	0.00090	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Vinyl acetate	<0.0055		0.0055	0.00086	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Vinyl chloride	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1
Xylenes, Total	<0.011		0.011	0.00050	mg/Kg	☼	07/25/13 15:10	08/05/13 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	07/25/13 15:10	08/05/13 15:22	1
Dibromofluoromethane	110		75 - 120	07/25/13 15:10	08/05/13 15:22	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	07/25/13 15:10	08/05/13 15:22	1
Toluene-d8 (Surr)	92		75 - 122	07/25/13 15:10	08/05/13 15:22	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	☼	08/04/13 20:16	08/09/13 17:18	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-8

Client Sample ID: 846D-145-B02

Lab Sample ID: 500-59862-19

Date Collected: 07/25/13 15:10

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 78.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
2-Methylphenol	<0.21		0.21	0.056	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.054	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Nitrobenzene	<0.042	*	0.042	0.013	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Bis(2-chloroethoxy)methane	<0.21	*	0.21	0.047	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
1,2,4-Trichlorobenzene	<0.21	*	0.21	0.048	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Naphthalene	<0.042		0.042	0.0081	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
2,4-Dichlorophenol	<0.42	*	0.42	0.13	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
4-Chloroaniline	<0.85		0.85	0.13	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
2,4,6-Trichlorophenol	<0.42		0.42	0.053	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Hexachlorocyclopentadiene	<0.85		0.85	0.20	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
2-Methylnaphthalene	<0.21		0.21	0.055	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
2-Nitroaniline	<0.21		0.21	0.076	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
2-Chloronaphthalene	<0.21		0.21	0.048	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
2-Nitrophenol	<0.42	*	0.42	0.066	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
3-Nitroaniline	<0.42		0.42	0.082	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
2,4-Dinitrophenol	<0.85		0.85	0.22	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Acenaphthylene	<0.042		0.042	0.0097	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Dibenzofuran	<0.21		0.21	0.051	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
4-Nitrophenol	<0.85		0.85	0.23	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Fluorene	<0.042		0.042	0.0096	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
4-Nitroaniline	<0.42		0.42	0.087	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Hexachlorobenzene	<0.085		0.085	0.0083	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Diethyl phthalate	<0.21	*	0.21	0.071	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
4-Chlorophenyl phenyl ether	<0.21	*	0.21	0.067	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Pentachlorophenol	<0.85		0.85	0.22	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
N-Nitrosodiphenylamine	<0.21		0.21	0.057	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Phenanthrene	0.067		0.042	0.018	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Anthracene	0.014	J	0.042	0.0099	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Fluoranthene	0.10		0.042	0.017	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Pyrene	0.11		0.042	0.015	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Butyl benzyl phthalate	0.070	J	0.21	0.053	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Benzo[a]anthracene	0.11		0.042	0.0089	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-8

Client Sample ID: 846D-145-B02

Lab Sample ID: 500-59862-19

Date Collected: 07/25/13 15:10

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 78.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.14		0.042	0.0095	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.056	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Di-n-octyl phthalate	<0.21		0.21	0.086	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Benzo[b]fluoranthene	0.16		0.042	0.0082	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Benzo[k]fluoranthene	0.054		0.042	0.010	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Benzo[a]pyrene	0.11		0.042	0.0077	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Indeno[1,2,3-cd]pyrene	0.058		0.042	0.014	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Dibenz(a,h)anthracene	0.054		0.042	0.012	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
Benzo[g,h,i]perylene	0.090		0.042	0.014	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1
3 & 4 Methylphenol	<0.21		0.21	0.080	mg/Kg	☼	08/04/13 20:16	08/09/13 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		30 - 110	08/04/13 20:16	08/09/13 17:18	1
Phenol-d5	73		31 - 110	08/04/13 20:16	08/09/13 17:18	1
Nitrobenzene-d5	43		30 - 115	08/04/13 20:16	08/09/13 17:18	1
2-Fluorobiphenyl	64		30 - 119	08/04/13 20:16	08/09/13 17:18	1
2,4,6-Tribromophenol	69		35 - 137	08/04/13 20:16	08/09/13 17:18	1
Terphenyl-d14	104		36 - 134	08/04/13 20:16	08/09/13 17:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Arsenic	5.9		0.61	0.12	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Barium	65		0.61	0.065	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Beryllium	0.68		0.24	0.021	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Boron	10 B		3.0	0.13	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Cadmium	0.46		0.12	0.015	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Calcium	33000 B		12	3.3	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Chromium	13		0.61	0.070	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Cobalt	10		0.30	0.022	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Copper	23 B		0.61	0.054	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Iron	14000 B		12	5.0	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Lead	70		0.30	0.091	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Magnesium	18000 B		6.1	1.3	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Manganese	390 B		0.61	0.033	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Nickel	26		0.61	0.060	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Potassium	1300 B		30	1.8	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Selenium	0.73		0.61	0.22	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Silver	0.024 J		0.30	0.022	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Sodium	1800		61	8.1	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Thallium	<0.61		0.61	0.26	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Vanadium	14		0.30	0.045	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1
Zinc	75 B		1.2	0.25	mg/Kg	☼	07/28/13 17:00	08/07/13 22:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.24		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 14:23	1
Lead	0.0065 J		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 14:23	1
Manganese	5.7		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 14:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-8

Client Sample ID: 846D-145-B02

Lab Sample ID: 500-59862-19

Date Collected: 07/25/13 15:10

Matrix: Solid

Date Received: 07/26/13 06:00

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.80		0.50	0.010	mg/L		07/30/13 10:30	08/07/13 18:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:30	08/07/13 18:40	1
Boron	1.0		0.10	0.050	mg/L		07/30/13 10:30	08/07/13 18:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:30	08/07/13 18:40	1
Chromium	0.090		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:40	1
Cobalt	0.040		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 18:40	1
Iron	92		0.20	0.20	mg/L		07/30/13 10:30	08/07/13 18:40	1
Lead	0.16		0.0075	0.0050	mg/L		07/30/13 10:30	08/07/13 18:40	1
Manganese	1.2		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:40	1
Nickel	0.095		0.025	0.010	mg/L		07/30/13 10:30	08/07/13 18:40	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:30	08/07/13 18:40	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:30	08/07/13 18:40	1
Zinc	0.65		0.10	0.020	mg/L		07/30/13 10:30	08/07/13 18:40	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:30	08/09/13 16:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:30	08/09/13 16:04	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000082	J	0.00020	0.000020	mg/L		07/31/13 15:30	08/01/13 12:11	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.021	0.010	mg/Kg	✱	07/30/13 17:45	07/31/13 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.65		0.200	0.200	SU			08/08/13 17:43	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-8

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

10401 to 10601 159th Street

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60084 Longitude: -87.87459

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (U.S. 6/IL 7)Latitude: 41.60084 Longitude: -87.87459Uncontaminated 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 846D-146-B01 THRU -B06 WERE SAMPLED ADJACENT TO SITE No. 846D-146. SEE FIGURES 8 & 9, AND TABLE 3y OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59862-9 & 500-75284-1

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

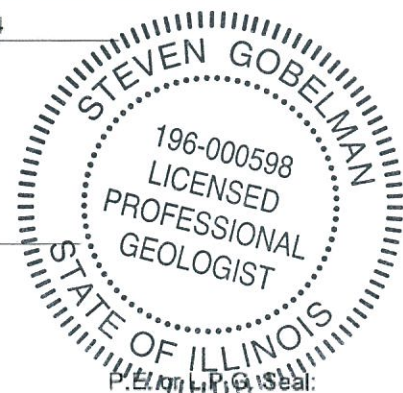
I, Steven Gobelman (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental 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: Illinois Department of Transportation, Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date: 9/20/19

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-146
Farmland and Vacant**

Sample ID	846D-146-B01	846D-146-B02	846D-146-B03	846D-146-B03 DUP									
Sample Depth (ft)	0-1	0-1	0-4	0-4									
Sample Date	7/25/2013	7/25/2013	4/17/2014	4/17/2014									
PID	0	0	0	0									
Sample pH	8.82	8.76	7.85	8.22									
Matrix	Soil	Soil	Soil	Soil									
Semivolatile Organic Compounds (mg/kg)													
Benzo(a)pyrene	0.47	1.2	0.43	1.2	ND	ND	0.09	0.09	0.09	0.98	1.3	2.1	NA
Dibenzo(a,h)anthracene	0.16	1.2,3	J 0.13	1.2	ND	ND	0.09	0.09	0.09	0.15	0.2	0.42	NA
Inorganic Compounds, Total (mg/kg)													
Arsenic	6.3	3.3	11	12	1.3	11.3	NA	NA	11.3	11.3	NA	13	NA

Sample ID	846D-146-B04	846D-146-B05	846D-146-B06										
Sample Depth (ft)	0-4	0-4	0-4										
Sample Date	4/17/2014	4/17/2014	4/17/2014										
PID	0	0	0										
Sample pH	7.91	8.77	8.55										
Matrix	Soil	Soil	Soil										
Semivolatile Organic Compounds (mg/kg)													
Benzo(a)pyrene	ND	ND	ND	0.09	0.09	0.98	0.09	0.09	0.98	1.3	2.1	2.1	NA
Dibenzo(a,h)anthracene	ND	ND	ND	0.09	0.09	0.15	0.09	0.09	0.15	0.2	0.42	0.42	NA
Inorganic Compounds, Total (mg/kg)													
Arsenic	6.4	6.8	8.5	11.3	8.5	11.3	NA	NA	11.3	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: 500-59862-9

Client Project/Site: IDOT - US 6/IL 7 - WO 022

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

8/19/2013 5:42:11 PM

Richard Wright, Project Manager II

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

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3

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5

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9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-9

Client Sample ID: 846D-146-B01

Lab Sample ID: 500-59862-20

Date Collected: 07/25/13 11:40

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 83.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0022	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Bromodichloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
1,1-Dichloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00069	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Vinyl acetate	<0.0050		0.0050	0.00079	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	07/25/13 11:40	08/05/13 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	07/25/13 11:40	08/05/13 15:45	1
Dibromofluoromethane	109		75 - 120	07/25/13 11:40	08/05/13 15:45	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	07/25/13 11:40	08/05/13 15:45	1
Toluene-d8 (Surr)	95		75 - 122	07/25/13 11:40	08/05/13 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	0.062	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1

TestAmerica Chicago

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TestAmerica Job ID: 500-59862-9

Client Sample ID: 846D-146-B01

Lab Sample ID: 500-59862-20

Date Collected: 07/25/13 11:40

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Nitrobenzene	<0.039	*	0.039	0.012	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Bis(2-chloroethoxy)methane	<0.20	*	0.20	0.043	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
1,2,4-Trichlorobenzene	<0.20	*	0.20	0.044	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Naphthalene	0.033	J	0.039	0.0075	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
2,4-Dichlorophenol	<0.39	*	0.39	0.12	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
2-Methylnaphthalene	0.054	J	0.20	0.051	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
2-Nitrophenol	<0.39	*	0.39	0.061	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Acenaphthylene	0.019	J	0.039	0.0089	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
2,4-Dinitrotoluene	0.11	J	0.20	0.060	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Acenaphthene	0.028	J	0.039	0.012	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
4-Nitrophenol	0.23	J	0.79	0.21	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Fluorene	0.030	J	0.039	0.0088	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Diethyl phthalate	<0.20	*	0.20	0.065	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
4-Chlorophenyl phenyl ether	<0.20	*	0.20	0.061	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Phenanthrene	0.36		0.039	0.016	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Anthracene	0.089		0.039	0.0092	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Fluoranthene	0.70		0.039	0.016	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Pyrene	0.56		0.039	0.014	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Benzo[a]anthracene	0.48		0.039	0.0082	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1

TestAmerica Chicago

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TestAmerica Job ID: 500-59862-9

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Date Collected: 07/25/13 11:40

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.55		0.039	0.0088	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Benzo[b]fluoranthene	0.67		0.039	0.0076	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Benzo[k]fluoranthene	0.26		0.039	0.0093	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Benzo[a]pyrene	0.47		0.039	0.0071	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Indeno[1,2,3-cd]pyrene	0.24		0.039	0.013	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Dibenz(a,h)anthracene	0.16		0.039	0.011	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
Benzo[g,h,i]perylene	0.37		0.039	0.013	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/04/13 20:16	08/09/13 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		30 - 110	08/04/13 20:16	08/09/13 17:38	1
Phenol-d5	59		31 - 110	08/04/13 20:16	08/09/13 17:38	1
Nitrobenzene-d5	51		30 - 115	08/04/13 20:16	08/09/13 17:38	1
2-Fluorobiphenyl	61		30 - 119	08/04/13 20:16	08/09/13 17:38	1
2,4,6-Tribromophenol	61		35 - 137	08/04/13 20:16	08/09/13 17:38	1
Terphenyl-d14	70		36 - 134	08/04/13 20:16	08/09/13 17:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Arsenic	6.3		0.56	0.11	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Barium	96		0.56	0.060	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Beryllium	0.48		0.22	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Boron	3.3 B		2.8	0.12	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Cadmium	0.41		0.11	0.014	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Calcium	54000 B		110	30	mg/Kg	☼	07/28/13 17:00	08/13/13 07:49	10
Chromium	11		0.56	0.065	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Cobalt	8.4		0.28	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Copper	15 B		0.56	0.049	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Iron	12000 B		11	4.6	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Lead	100		0.28	0.083	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Magnesium	26000 B		5.6	1.1	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Manganese	510 B		0.56	0.030	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Nickel	13		0.56	0.055	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Potassium	730 B		28	1.7	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Selenium	0.94		0.56	0.20	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Sodium	2700		56	7.5	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Thallium	0.23 J		0.56	0.23	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Vanadium	18		0.28	0.041	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1
Zinc	66 B		1.1	0.22	mg/Kg	☼	07/28/13 17:00	08/07/13 22:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 14:29	1
Iron	<0.20		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 14:29	1
Lead	0.11		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 14:29	1

TestAmerica Chicago

Client Sample Results

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Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-9

Client Sample ID: 846D-146-B01

Lab Sample ID: 500-59862-20

Date Collected: 07/25/13 11:40

Matrix: Solid

Date Received: 07/26/13 06:00

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	5.9		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 14:29	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.1		0.50	0.010	mg/L		07/30/13 10:45	08/07/13 18:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:45	08/07/13 18:54	1
Boron	0.91		0.10	0.050	mg/L		07/30/13 10:45	08/07/13 18:54	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		07/30/13 10:45	08/07/13 18:54	1
Chromium	0.12		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 18:54	1
Cobalt	0.027		0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 18:54	1
Iron	110		0.20	0.20	mg/L		07/30/13 10:45	08/07/13 18:54	1
Lead	1.0		0.0075	0.0050	mg/L		07/30/13 10:45	08/07/13 18:54	1
Manganese	1.4		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 18:54	1
Nickel	0.088		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 18:54	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:45	08/07/13 18:54	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 18:54	1
Zinc	1.1		0.10	0.020	mg/L		07/30/13 10:45	08/07/13 18:54	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:45	08/09/13 16:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:45	08/09/13 16:07	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00021		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 11:05	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.017	0.0080	mg/Kg	☼	07/30/13 17:45	07/31/13 10:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.82		0.200	0.200	SU			08/08/13 17:47	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-9

Client Sample ID: 846D-146-B02

Lab Sample ID: 500-59862-21

Date Collected: 07/25/13 11:50

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 95.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.082		0.0042	0.0018	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
2-Butanone (MEK)	0.012		0.0042	0.0015	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
1,1,1-Dichloroethane	<0.0042		0.0042	0.00068	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	07/25/13 11:50	08/05/13 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	07/25/13 11:50	08/05/13 16:07	1
Dibromofluoromethane	103		75 - 120	07/25/13 11:50	08/05/13 16:07	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	07/25/13 11:50	08/05/13 16:07	1
Toluene-d8 (Surr)	98		75 - 122	07/25/13 11:50	08/05/13 16:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<1.7		1.7	0.53	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Bis(2-chloroethyl)ether	<1.7		1.7	0.49	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
1,3-Dichlorobenzene	<1.7		1.7	0.35	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
1,4-Dichlorobenzene	<1.7		1.7	0.35	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-9

Client Sample ID: 846D-146-B02

Lab Sample ID: 500-59862-21

Date Collected: 07/25/13 11:50

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 95.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.7		1.7	0.36	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
2-Methylphenol	<1.7		1.7	0.44	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
2,2'-oxybis[1-chloropropane]	<1.7		1.7	0.37	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
N-Nitrosodi-n-propylamine	<1.7		1.7	0.42	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Hexachloroethane	<1.7		1.7	0.36	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
2-Chlorophenol	<1.7		1.7	0.48	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Nitrobenzene	<0.33		0.33	0.10	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Bis(2-chloroethoxy)methane	<1.7		1.7	0.37	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
1,2,4-Trichlorobenzene	<1.7		1.7	0.38	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Isophorone	<1.7		1.7	0.37	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
2,4-Dimethylphenol	<3.3	*	3.3	1.0	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Hexachlorobutadiene	<1.7		1.7	0.44	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Naphthalene	<0.33		0.33	0.064	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
2,4-Dichlorophenol	<3.3		3.3	1.0	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
4-Chloroaniline	<6.7		6.7	1.0	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
2,4,6-Trichlorophenol	<3.3		3.3	0.42	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
2,4,5-Trichlorophenol	<3.3		3.3	0.95	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Hexachlorocyclopentadiene	<6.7		6.7	1.5	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
2-Methylnaphthalene	<1.7		1.7	0.43	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
2-Nitroaniline	<1.7		1.7	0.60	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
2-Chloronaphthalene	<1.7		1.7	0.38	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
4-Chloro-3-methylphenol	<3.3		3.3	1.6	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
2,6-Dinitrotoluene	<1.7		1.7	0.40	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
2-Nitrophenol	<3.3		3.3	0.52	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
3-Nitroaniline	<3.3		3.3	0.64	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Dimethyl phthalate	<1.7		1.7	0.42	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
2,4-Dinitrophenol	<6.7	*	6.7	1.7	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Acenaphthylene	<0.33		0.33	0.077	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
2,4-Dinitrotoluene	<1.7		1.7	0.51	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Acenaphthene	<0.33		0.33	0.10	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Dibenzofuran	<1.7		1.7	0.40	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
4-Nitrophenol	<6.7		6.7	1.8	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Fluorene	<0.33		0.33	0.076	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
4-Nitroaniline	<3.3		3.3	0.68	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
4-Bromophenyl phenyl ether	<1.7	*	1.7	0.37	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Hexachlorobenzene	<0.67		0.67	0.066	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Diethyl phthalate	<1.7	*	1.7	0.56	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
4-Chlorophenyl phenyl ether	<1.7		1.7	0.52	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Pentachlorophenol	<6.7		6.7	1.7	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
N-Nitrosodiphenylamine	<1.7		1.7	0.45	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
4,6-Dinitro-2-methylphenol	<3.3		3.3	0.81	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Phenanthrene	0.28	J	0.33	0.14	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Anthracene	<0.33		0.33	0.078	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Carbazole	<1.7	*	1.7	0.47	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Di-n-butyl phthalate	<1.7		1.7	0.42	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Fluoranthene	0.70		0.33	0.14	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Pyrene	0.77		0.33	0.12	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Butyl benzyl phthalate	<1.7		1.7	0.42	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Benzo[a]anthracene	0.43		0.33	0.070	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-9

Client Sample ID: 846D-146-B02

Lab Sample ID: 500-59862-21

Date Collected: 07/25/13 11:50

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 95.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.46		0.33	0.075	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
3,3'-Dichlorobenzidine	<1.7		1.7	0.28	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Bis(2-ethylhexyl) phthalate	<1.7		1.7	0.44	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Di-n-octyl phthalate	<1.7		1.7	0.68	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Benzo[b]fluoranthene	0.67		0.33	0.065	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Benzo[k]fluoranthene	0.27 J		0.33	0.079	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Benzo[a]pyrene	0.43		0.33	0.061	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Indeno[1,2,3-cd]pyrene	0.33		0.33	0.11	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Dibenz(a,h)anthracene	0.13 J		0.33	0.093	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Benzo[g,h,i]perylene	0.37		0.33	0.11	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
3 & 4 Methylphenol	<1.7		1.7	0.63	mg/Kg	☼	08/04/13 20:28	08/09/13 18:40	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		30 - 110				08/04/13 20:28	08/09/13 18:40	5
Phenol-d5	103		31 - 110				08/04/13 20:28	08/09/13 18:40	5
Nitrobenzene-d5	84		30 - 115				08/04/13 20:28	08/09/13 18:40	5
2-Fluorobiphenyl	94		30 - 119				08/04/13 20:28	08/09/13 18:40	5
2,4,6-Tribromophenol	126		35 - 137				08/04/13 20:28	08/09/13 18:40	5
Terphenyl-d14	115		36 - 134				08/04/13 20:28	08/09/13 18:40	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.2		5.2	2.1	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Arsenic	3.3		2.6	0.52	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Barium	33		2.6	0.28	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Beryllium	0.76 J		1.0	0.092	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Boron	15		2.6	0.11	mg/Kg	☼	07/28/13 16:30	07/30/13 19:47	1
Cadmium	0.75		0.52	0.066	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Calcium	160000 B		52	14	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Chromium	190		2.6	0.30	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Cobalt	2.3		1.3	0.093	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Copper	21 B		2.6	0.23	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Iron	38000		52	21	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Lead	28		1.3	0.39	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Magnesium	77000 B		26	5.4	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Manganese	4000		5.2	0.28	mg/Kg	☼	07/28/13 16:30	08/01/13 15:03	10
Nickel	7.1		2.6	0.26	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Potassium	470		26	1.6	mg/Kg	☼	07/28/13 16:30	07/30/13 19:47	1
Selenium	<2.6		2.6	0.93	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Silver	0.14 J		1.3	0.094	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Sodium	570		52	7.0	mg/Kg	☼	07/28/13 16:30	07/30/13 19:47	1
Thallium	1.3 J		2.6	1.1	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Vanadium	370		1.3	0.19	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5
Zinc	66 B		5.2	1.1	mg/Kg	☼	07/28/13 16:30	08/01/13 06:37	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 14:35	1
Lead	0.031		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 14:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-9

Client Sample ID: 846D-146-B02

Lab Sample ID: 500-59862-21

Date Collected: 07/25/13 11:50

Matrix: Solid

Date Received: 07/26/13 06:00

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J	0.50	0.010	mg/L		07/30/13 10:45	08/07/13 18:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:45	08/07/13 18:58	1
Boron	0.73		0.10	0.050	mg/L		07/30/13 10:45	08/07/13 18:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:45	08/07/13 18:58	1
Chromium	0.011	J	0.025	0.010	mg/L		07/30/13 10:45	08/07/13 18:58	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 18:58	1
Iron	4.2		0.20	0.20	mg/L		07/30/13 10:45	08/07/13 18:58	1
Lead	0.031		0.0075	0.0050	mg/L		07/30/13 10:45	08/07/13 18:58	1
Manganese	0.077		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 18:58	1
Nickel	<0.025		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 18:58	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:45	08/07/13 18:58	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 18:58	1
Zinc	0.37		0.10	0.020	mg/L		07/30/13 10:45	08/07/13 18:58	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:45	08/09/13 16:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:45	08/09/13 16:08	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 11:06	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.017	0.0081	mg/Kg	☼	07/30/13 17:45	07/31/13 10:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.76		0.200	0.200	SU			08/08/13 17:51	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-9

Qualifiers

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
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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: 500-75284-1
Client Project/Site: IDOT - US 6/IL 7 - WO 022

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:
4/30/2014 3:00:15 PM

Richard Wright, Senior Project Manager
(708)534-5200
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 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B03

Lab Sample ID: 500-75284-1

Date Collected: 04/17/14 08:30

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 81.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0021	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Carbon disulfide	<0.0050		0.0050	0.00074	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Carbon tetrachloride	<0.0050		0.0050	0.00090	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Chlorobenzene	<0.0050		0.0050	0.00050	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Chloroethane	<0.0050		0.0050	0.0013	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Dibromochloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
1,1-Dichloroethane	<0.0050		0.0050	0.00078	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
1,2-Dichloroethane	<0.0050		0.0050	0.00073	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
1,2-Dichloropropane	<0.0050		0.0050	0.00075	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Toluene	<0.0050		0.0050	0.00069	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00068	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Vinyl acetate	<0.0050		0.0050	0.00078	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	04/17/14 16:15	04/22/14 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	04/17/14 16:15	04/22/14 00:27	1
Dibromofluoromethane	109		75 - 120	04/17/14 16:15	04/22/14 00:27	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	04/17/14 16:15	04/22/14 00:27	1
Toluene-d8 (Surr)	104		75 - 122	04/17/14 16:15	04/22/14 00:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B03

Lab Sample ID: 500-75284-1

Date Collected: 04/17/14 08:30

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Carbazole	<0.19		0.19	0.10	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B03

Lab Sample ID: 500-75284-1

Date Collected: 04/17/14 08:30

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	04/23/14 19:42	04/29/14 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	35		25 - 110	04/23/14 19:42	04/29/14 13:24	1
Phenol-d5	36		31 - 110	04/23/14 19:42	04/29/14 13:24	1
Nitrobenzene-d5	30		25 - 115	04/23/14 19:42	04/29/14 13:24	1
2-Fluorobiphenyl	30		25 - 119	04/23/14 19:42	04/29/14 13:24	1
2,4,6-Tribromophenol	47		35 - 137	04/23/14 19:42	04/29/14 13:24	1
Terphenyl-d14	54		36 - 134	04/23/14 19:42	04/29/14 13:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.1	0.46	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Arsenic	11		0.57	0.11	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Barium	69		0.57	0.061	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Beryllium	0.57		0.23	0.046	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Boron	8.1		2.9	0.57	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Cadmium	0.13		0.11	0.015	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Calcium	33000	B ^	11	3.1	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Chromium	15		0.57	0.067	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Cobalt	12		0.29	0.057	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Copper	23		0.57	0.11	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Iron	20000		11	4.7	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Lead	18		0.29	0.086	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Magnesium	21000	^	5.7	1.2	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Manganese	380		0.57	0.11	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Nickel	30		0.57	0.11	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Potassium	2000		29	1.7	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Selenium	1.2		0.57	0.20	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Sodium	210		57	7.7	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Vanadium	19	B	0.29	0.043	mg/Kg	☼	04/18/14 16:00	04/22/14 20:00	1
Zinc	69		1.1	0.23	mg/Kg	☼	04/18/14 16:00	04/23/14 22:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		04/28/14 07:30	04/29/14 15:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/28/14 07:30	04/28/14 16:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B03

Lab Sample ID: 500-75284-1

Date Collected: 04/17/14 08:30

Matrix: Solid

Date Received: 04/17/14 12:24

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.31	J B	0.50	0.050	mg/L		04/21/14 09:15	04/21/14 19:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 09:15	04/21/14 19:35	1
Boron	1.2	B	0.10	0.050	mg/L		04/24/14 09:15	04/24/14 19:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 09:15	04/21/14 19:35	1
Chromium	0.029		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:35	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:35	1
Iron	23	B	0.20	0.20	mg/L		04/21/14 09:15	04/21/14 19:35	1
Lead	0.017		0.0075	0.0075	mg/L		04/21/14 09:15	04/21/14 19:35	1
Manganese	0.13		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:35	1
Nickel	0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:35	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 09:15	04/21/14 19:35	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:35	1
Zinc	0.25		0.10	0.020	mg/L		04/24/14 09:15	04/24/14 19:16	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/21/14 09:15	04/21/14 16:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 09:15	04/21/14 16:46	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		04/21/14 16:00	04/22/14 09:14	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0070	mg/Kg	✱	04/22/14 13:25	04/23/14 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.85		0.200	0.200	SU			04/28/14 13:15	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B03 Dup

Lab Sample ID: 500-75284-2

Date Collected: 04/17/14 08:35

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 81.0

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	☼	04/17/14 16:15	04/22/14 00:51	1
Benzene	<0.0046		0.0046	0.00064	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Carbon tetrachloride	<0.0046		0.0046	0.00085	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Chloromethane	<0.0046		0.0046	0.00098	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Dibromochloromethane	<0.0046		0.0046	0.00081	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
1,1-Dichloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
1,1,1-Dichloroethane	<0.0046		0.0046	0.00075	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
1,2-Dichloropropane	<0.0046		0.0046	0.00071	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Ethylbenzene	<0.0046		0.0046	0.00094	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00077	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Trichloroethene	<0.0046		0.0046	0.00077	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Vinyl chloride	<0.0046		0.0046	0.00098	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	04/17/14 16:15	04/22/14 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	04/17/14 16:15	04/22/14 00:51	1
Dibromofluoromethane	109		75 - 120	04/17/14 16:15	04/22/14 00:51	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	04/17/14 16:15	04/22/14 00:51	1
Toluene-d8 (Surr)	101		75 - 122	04/17/14 16:15	04/22/14 00:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B03 Dup

Lab Sample ID: 500-75284-2

Date Collected: 04/17/14 08:35

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
2,4-Dinitrophenol	<0.82 *		0.82	0.72	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.33	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Carbazole	<0.20		0.20	0.11	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B03 Dup

Lab Sample ID: 500-75284-2

Date Collected: 04/17/14 08:35

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Di-n-octyl phthalate	0.12	J	0.20	0.066	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	04/23/14 19:42	04/29/14 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		25 - 110	04/23/14 19:42	04/29/14 13:44	1
Phenol-d5	42		31 - 110	04/23/14 19:42	04/29/14 13:44	1
Nitrobenzene-d5	33		25 - 115	04/23/14 19:42	04/29/14 13:44	1
2-Fluorobiphenyl	36		25 - 119	04/23/14 19:42	04/29/14 13:44	1
2,4,6-Tribromophenol	47		35 - 137	04/23/14 19:42	04/29/14 13:44	1
Terphenyl-d14	65		36 - 134	04/23/14 19:42	04/29/14 13:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Arsenic	12		0.61	0.12	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Barium	110		0.61	0.065	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Beryllium	0.65		0.24	0.049	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Boron	11		3.0	0.61	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Cadmium	0.16		0.12	0.015	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Calcium	55000	B ^	120	33	mg/Kg	☼	04/18/14 16:00	04/22/14 20:14	10
Chromium	17		0.61	0.071	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Cobalt	14		0.30	0.061	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Copper	24		0.61	0.12	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Iron	25000		12	5.0	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Lead	17		0.30	0.091	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Magnesium	23000	^	6.1	1.3	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Manganese	640		0.61	0.12	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Nickel	35		0.61	0.12	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Potassium	2500		30	1.8	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Selenium	1.4		0.61	0.22	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Sodium	230		61	8.1	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Thallium	<0.61		0.61	0.26	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Vanadium	21	B	0.30	0.045	mg/Kg	☼	04/18/14 16:00	04/22/14 20:09	1
Zinc	72		1.2	0.25	mg/Kg	☼	04/18/14 16:00	04/23/14 22:35	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J B	0.50	0.050	mg/L		04/21/14 09:15	04/21/14 19:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 09:15	04/21/14 19:39	1
Boron	0.90	B	0.10	0.050	mg/L		04/24/14 09:15	04/24/14 19:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B03 Dup

Lab Sample ID: 500-75284-2

Date Collected: 04/17/14 08:35

Matrix: Solid

Date Received: 04/17/14 12:24

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 09:15	04/21/14 19:39	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:39	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:39	1
Iron	3.0	B	0.20	0.20	mg/L		04/21/14 09:15	04/21/14 19:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 09:15	04/21/14 19:39	1
Manganese	0.020	J	0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:39	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:39	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 09:15	04/21/14 19:39	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:39	1
Zinc	0.16		0.10	0.020	mg/L		04/24/14 09:15	04/24/14 19:20	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/21/14 09:15	04/21/14 16:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 09:15	04/21/14 16:49	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		04/21/14 16:00	04/22/14 09:20	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0074	mg/Kg	☆	04/22/14 13:25	04/23/14 14:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.22		0.200	0.200	SU			04/28/14 13:18	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B04

Lab Sample ID: 500-75284-3

Date Collected: 04/17/14 09:20

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 88.8

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	☼	04/17/14 16:15	04/22/14 01:15	1
Benzene	<0.0043		0.0043	0.00060	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Bromodichloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Bromoform	<0.0043		0.0043	0.0010	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Dibromochloromethane	<0.0043		0.0043	0.00076	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Ethylbenzene	<0.0043		0.0043	0.00088	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00072	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Trichloroethene	<0.0043		0.0043	0.00072	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	04/17/14 16:15	04/22/14 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	04/17/14 16:15	04/22/14 01:15	1
Dibromofluoromethane	110		75 - 120	04/17/14 16:15	04/22/14 01:15	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	04/17/14 16:15	04/22/14 01:15	1
Toluene-d8 (Surr)	105		75 - 122	04/17/14 16:15	04/22/14 01:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B04

Lab Sample ID: 500-75284-3

Date Collected: 04/17/14 09:20

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 88.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
2,4-Dinitrophenol	<0.73	*	0.73	0.64	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Phenanthrene	0.0093	J	0.036	0.0051	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Carbazole	<0.18		0.18	0.094	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Pyrene	0.011	J	0.036	0.0072	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B04

Lab Sample ID: 500-75284-3

Date Collected: 04/17/14 09:20

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 88.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Di-n-octyl phthalate	0.077	J	0.18	0.059	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	04/23/14 19:42	04/29/14 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		25 - 110	04/23/14 19:42	04/29/14 14:22	1
Phenol-d5	52		31 - 110	04/23/14 19:42	04/29/14 14:22	1
Nitrobenzene-d5	47		25 - 115	04/23/14 19:42	04/29/14 14:22	1
2-Fluorobiphenyl	47		25 - 119	04/23/14 19:42	04/29/14 14:22	1
2,4,6-Tribromophenol	50		35 - 137	04/23/14 19:42	04/29/14 14:22	1
Terphenyl-d14	66		36 - 134	04/23/14 19:42	04/29/14 14:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Arsenic	6.4		0.54	0.11	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Barium	16		0.54	0.058	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Beryllium	0.37		0.22	0.043	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Boron	7.8		2.7	0.54	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Cadmium	0.22		0.11	0.014	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Calcium	79000	B ^	110	29	mg/Kg	☼	04/18/14 16:00	04/22/14 20:31	10
Chromium	9.1		0.54	0.063	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Cobalt	9.1		0.27	0.054	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Copper	25		0.54	0.11	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Iron	15000		11	4.5	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Lead	13		0.27	0.081	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Magnesium	36000	^	5.4	1.1	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Manganese	400		0.54	0.11	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Nickel	22		0.54	0.11	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Potassium	1400		27	1.6	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Selenium	0.98		0.54	0.19	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Sodium	170		54	7.3	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Thallium	0.37	J	0.54	0.23	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Vanadium	12	B	0.27	0.040	mg/Kg	☼	04/18/14 16:00	04/22/14 20:18	1
Zinc	64		1.1	0.22	mg/Kg	☼	04/18/14 16:00	04/23/14 22:40	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.16	J B	0.50	0.050	mg/L		04/21/14 09:15	04/21/14 19:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 09:15	04/21/14 19:43	1
Boron	1.3	B	0.10	0.050	mg/L		04/24/14 09:15	04/24/14 19:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B04

Lab Sample ID: 500-75284-3

Date Collected: 04/17/14 09:20

Matrix: Solid

Date Received: 04/17/14 12:24

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 09:15	04/21/14 19:43	1
Chromium	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:43	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:43	1
Iron	0.34	B	0.20	0.20	mg/L		04/24/14 09:15	04/24/14 19:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/21/14 09:15	04/21/14 19:43	1
Manganese	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:43	1
Nickel	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:43	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 09:15	04/21/14 19:43	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:43	1
Zinc	0.22		0.10	0.020	mg/L		04/24/14 09:15	04/24/14 19:24	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/21/14 09:15	04/21/14 16:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 09:15	04/21/14 16:51	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		04/21/14 16:00	04/22/14 09:22	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0067	mg/Kg	☆	04/22/14 13:25	04/23/14 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.91		0.200	0.200	SU			04/28/14 13:21	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B05

Lab Sample ID: 500-75284-4

Date Collected: 04/17/14 09:00

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 86.6

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	☼	04/17/14 16:15	04/22/14 01:39	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
1,1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1
Xylenes, Total	<0.0083		0.0083	0.00038	mg/Kg	☼	04/17/14 16:15	04/22/14 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	04/17/14 16:15	04/22/14 01:39	1
Dibromofluoromethane	107		75 - 120	04/17/14 16:15	04/22/14 01:39	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	04/17/14 16:15	04/22/14 01:39	1
Toluene-d8 (Surr)	102		75 - 122	04/17/14 16:15	04/22/14 01:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B05

Lab Sample ID: 500-75284-4

Date Collected: 04/17/14 09:00

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
2,4-Dinitrophenol	<0.75 *		0.75	0.66	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B05

Lab Sample ID: 500-75284-4

Date Collected: 04/17/14 09:00

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	04/23/14 19:42	04/29/14 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110	04/23/14 19:42	04/29/14 14:42	1
Phenol-d5	49		31 - 110	04/23/14 19:42	04/29/14 14:42	1
Nitrobenzene-d5	46		25 - 115	04/23/14 19:42	04/29/14 14:42	1
2-Fluorobiphenyl	44		25 - 119	04/23/14 19:42	04/29/14 14:42	1
2,4,6-Tribromophenol	45		35 - 137	04/23/14 19:42	04/29/14 14:42	1
Terphenyl-d14	59		36 - 134	04/23/14 19:42	04/29/14 14:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.58	J	1.1	0.44	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Arsenic	6.8		0.54	0.11	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Barium	20		0.54	0.058	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Beryllium	0.42		0.22	0.043	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Boron	9.7		2.7	0.54	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Cadmium	0.16		0.11	0.014	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Calcium	71000	B ^	110	29	mg/Kg	☼	04/18/14 16:00	04/22/14 20:40	10
Chromium	11		0.54	0.063	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Cobalt	9.4		0.27	0.054	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Copper	20		0.54	0.11	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Iron	17000		11	4.5	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Lead	13		0.27	0.081	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Magnesium	33000	^	5.4	1.1	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Manganese	290		0.54	0.11	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Nickel	24		0.54	0.11	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Potassium	1800		27	1.6	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Selenium	1.0		0.54	0.19	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Sodium	96		54	7.3	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Thallium	0.40	J	0.54	0.23	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Vanadium	13	B	0.27	0.040	mg/Kg	☼	04/18/14 16:00	04/22/14 20:35	1
Zinc	62		1.1	0.22	mg/Kg	☼	04/18/14 16:00	04/23/14 22:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		04/28/14 07:30	04/29/14 15:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/28/14 07:30	04/28/14 17:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B05

Lab Sample ID: 500-75284-4

Date Collected: 04/17/14 09:00

Matrix: Solid

Date Received: 04/17/14 12:24

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J B	0.50	0.050	mg/L		04/21/14 09:15	04/21/14 19:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 09:15	04/21/14 19:55	1
Boron	1.1	B	0.10	0.050	mg/L		04/24/14 09:15	04/24/14 19:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 09:15	04/21/14 19:55	1
Chromium	0.012	J	0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:55	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:55	1
Iron	10	B	0.20	0.20	mg/L		04/21/14 09:15	04/21/14 19:55	1
Lead	0.012		0.0075	0.0075	mg/L		04/21/14 09:15	04/21/14 19:55	1
Manganese	0.092		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:55	1
Nickel	0.013	J	0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:55	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 09:15	04/21/14 19:55	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:55	1
Zinc	0.22		0.10	0.020	mg/L		04/24/14 09:15	04/24/14 19:28	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/21/14 09:15	04/21/14 16:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 09:15	04/21/14 16:54	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		04/21/14 16:00	04/22/14 09:24	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0075	mg/Kg	✱	04/22/14 13:25	04/23/14 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.77		0.200	0.200	SU			04/28/14 13:24	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B06

Lab Sample ID: 500-75284-5

Date Collected: 04/17/14 09:35

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 83.9

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	☼	04/17/14 16:15	04/22/14 02:03	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0012	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00085	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	04/17/14 16:15	04/22/14 02:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	04/17/14 16:15	04/22/14 02:03	1
Dibromofluoromethane	110		75 - 120	04/17/14 16:15	04/22/14 02:03	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	04/17/14 16:15	04/22/14 02:03	1
Toluene-d8 (Surr)	104		75 - 122	04/17/14 16:15	04/22/14 02:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B06

Lab Sample ID: 500-75284-5

Date Collected: 04/17/14 09:35

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
2,4-Dinitrophenol	<0.78	*	0.78	0.69	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Pyrene	0.013	J	0.039	0.0077	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B06

Lab Sample ID: 500-75284-5

Date Collected: 04/17/14 09:35

Matrix: Solid

Date Received: 04/17/14 12:24

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Di-n-octyl phthalate	0.37		0.20	0.063	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/23/14 19:42	04/29/14 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	04/23/14 19:42	04/29/14 15:01	1
Phenol-d5	49		31 - 110	04/23/14 19:42	04/29/14 15:01	1
Nitrobenzene-d5	48		25 - 115	04/23/14 19:42	04/29/14 15:01	1
2-Fluorobiphenyl	46		25 - 119	04/23/14 19:42	04/29/14 15:01	1
2,4,6-Tribromophenol	42		35 - 137	04/23/14 19:42	04/29/14 15:01	1
Terphenyl-d14	60		36 - 134	04/23/14 19:42	04/29/14 15:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Arsenic	8.5		0.57	0.11	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Barium	30		0.57	0.061	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Beryllium	0.67		0.23	0.046	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Boron	13		2.9	0.57	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Cadmium	0.079 J		0.11	0.015	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Calcium	47000 B ^		110	31	mg/Kg	☼	04/18/14 16:00	04/22/14 20:49	10
Chromium	18		0.57	0.066	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Cobalt	15		0.29	0.057	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Copper	20		0.57	0.11	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Iron	23000		11	4.7	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Lead	15		0.29	0.085	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Magnesium	24000 ^		5.7	1.2	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Manganese	430		0.57	0.11	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Nickel	35		0.57	0.11	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Potassium	3200		29	1.7	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Selenium	0.95		0.57	0.20	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Sodium	110		57	7.7	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Thallium	0.28 J		0.57	0.24	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Vanadium	17 B		0.29	0.042	mg/Kg	☼	04/18/14 16:00	04/22/14 20:44	1
Zinc	65		1.1	0.23	mg/Kg	☼	04/18/14 16:00	04/23/14 22:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.21		0.20	0.20	mg/L		04/28/14 07:30	04/29/14 15:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/28/14 07:30	04/28/14 17:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Client Sample ID: 846D-146-B06

Lab Sample ID: 500-75284-5

Date Collected: 04/17/14 09:35

Matrix: Solid

Date Received: 04/17/14 12:24

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.21	J B	0.50	0.050	mg/L		04/21/14 09:15	04/21/14 19:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/21/14 09:15	04/21/14 19:59	1
Boron	1.4	B	0.10	0.050	mg/L		04/24/14 09:15	04/24/14 19:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/21/14 09:15	04/21/14 19:59	1
Chromium	0.012	J	0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:59	1
Cobalt	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:59	1
Iron	8.3	B	0.20	0.20	mg/L		04/21/14 09:15	04/21/14 19:59	1
Lead	0.0076		0.0075	0.0075	mg/L		04/21/14 09:15	04/21/14 19:59	1
Manganese	0.13		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:59	1
Nickel	0.011	J	0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:59	1
Selenium	<0.050		0.050	0.010	mg/L		04/21/14 09:15	04/21/14 19:59	1
Silver	<0.025		0.025	0.010	mg/L		04/21/14 09:15	04/21/14 19:59	1
Zinc	0.27		0.10	0.020	mg/L		04/24/14 09:15	04/24/14 19:32	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/21/14 09:15	04/21/14 16:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/21/14 09:15	04/21/14 16:57	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00010	mg/L		04/21/14 16:00	04/22/14 09:26	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.019	0.0076	mg/Kg	✱	04/22/14 13:25	04/23/14 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.55		0.200	0.200	SU			04/28/14 13:27	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-75284-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client 500-75284 COC	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: USle/IL7 WILL/COOK Co Project No.: IDOT2013-022 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.: 1 of 1 Lab Job No.: 500-75284 Sample Temp: 37
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	ANALYSES										Comments		
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization	
1	846D-146-803	4/17/14	8:30	S	X	X					X	X	X	X			0-4'
2	846D-146-803 DUP	4/17/14	8:35	S	X	X					X	X	X	X			0-4'
3	846D-146-804	4/17/14	9:20	S	X	X					X	X	X	X			0-4'
4	846D-146-805	4/17/14	9:00	S	X	X					X	X	X	X			0-4'
5	846D-146-806	4/17/14	9:35	S	X	X					X	X	X	X			0-4'
Relinquished by: <i>Kelin A. Wright</i>					Date/Time: 4/17/14 12:33	Received by: <i>[Signature]</i>					Date/Time: 4-17-14 12:21						
Relinquished by:					Date/Time:	Received by:					Date/Time:						
Relinquished by:					Date/Time:	Received by:					Date/Time:						



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

9941 to 10559 159th Street

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60076 Longitude: -87.86884

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (U.S. 6/IL 7)
 Latitude: 41.60076 Longitude: -87.86884

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 846D-148-B01 THRU -B03 WERE SAMPLED ADJACENT TO SITE No. 846D-148. SEE FIGURES 9 & 10, AND TABLE 3z OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59862-10

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman (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: Illinois Department of Transportation, Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

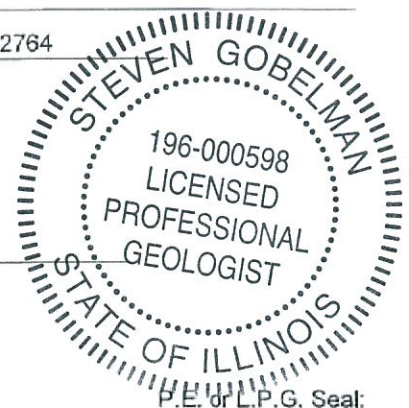
Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

7/20/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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: 500-59862-10

Client Project/Site: IDOT - US 6/IL 7 - WO 022

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

8/19/2013 5:15:54 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-10

Client Sample ID: 846D-148-B01

Lab Sample ID: 500-59862-22

Date Collected: 07/25/13 12:05

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 86.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.042		0.0046	0.0020	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
2-Butanone (MEK)	0.0062		0.0046	0.0017	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Dibromochloromethane	<0.0046		0.0046	0.00081	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
1,1,1-Dichloroethane	<0.0046		0.0046	0.00075	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Ethylbenzene	<0.0046		0.0046	0.00094	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00077	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	07/25/13 12:05	08/05/13 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	07/25/13 12:05	08/05/13 16:30	1
Dibromofluoromethane	104		75 - 120	07/25/13 12:05	08/05/13 16:30	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/25/13 12:05	08/05/13 16:30	1
Toluene-d8 (Surr)	94		75 - 122	07/25/13 12:05	08/05/13 16:30	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	☼	08/04/13 20:28	08/13/13 20:03	1
Bis(2-chloroethyl)ether	<1.9		1.9	0.55	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
1,3-Dichlorobenzene	<1.9		1.9	0.39	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
1,4-Dichlorobenzene	<1.9		1.9	0.39	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-10

Client Sample ID: 846D-148-B01

Lab Sample ID: 500-59862-22

Date Collected: 07/25/13 12:05

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 86.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.9		1.9	0.41	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
2-Methylphenol	<1.9		1.9	0.50	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
2,2'-oxybis[1-chloropropane]	<1.9		1.9	0.41	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
N-Nitrosodi-n-propylamine	<1.9		1.9	0.47	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Hexachloroethane	<1.9		1.9	0.40	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
2-Chlorophenol	<1.9		1.9	0.53	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Nitrobenzene	<0.37		0.37	0.12	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Bis(2-chloroethoxy)methane	<1.9		1.9	0.41	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
1,2,4-Trichlorobenzene	<1.9		1.9	0.42	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Isophorone	<1.9		1.9	0.42	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
2,4-Dimethylphenol	<3.7	*	3.7	1.2	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Hexachlorobutadiene	<1.9		1.9	0.49	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Naphthalene	<0.37		0.37	0.072	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
2,4-Dichlorophenol	<3.7		3.7	1.1	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
4-Chloroaniline	<7.5		7.5	1.1	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
2,4,6-Trichlorophenol	<3.7		3.7	0.47	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
2,4,5-Trichlorophenol	<3.7		3.7	1.1	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Hexachlorocyclopentadiene	<7.5		7.5	1.7	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
2-Methylnaphthalene	<1.9		1.9	0.49	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
2-Nitroaniline	<1.9		1.9	0.67	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
2-Chloronaphthalene	<1.9		1.9	0.42	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
4-Chloro-3-methylphenol	<3.7		3.7	1.8	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
2,6-Dinitrotoluene	<1.9		1.9	0.44	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
2-Nitrophenol	<3.7		3.7	0.59	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
3-Nitroaniline	<3.7		3.7	0.72	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Dimethyl phthalate	<1.9		1.9	0.47	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
2,4-Dinitrophenol	<7.5	*	7.5	1.9	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Acenaphthylene	<0.37		0.37	0.086	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
2,4-Dinitrotoluene	<1.9		1.9	0.57	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Acenaphthene	<0.37		0.37	0.11	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Dibenzofuran	<1.9		1.9	0.45	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
4-Nitrophenol	<7.5		7.5	2.0	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Fluorene	<0.37		0.37	0.085	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
4-Nitroaniline	<3.7		3.7	0.77	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
4-Bromophenyl phenyl ether	<1.9	*	1.9	0.42	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Hexachlorobenzene	<0.75		0.75	0.074	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Diethyl phthalate	<1.9	*	1.9	0.62	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
4-Chlorophenyl phenyl ether	<1.9		1.9	0.59	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Pentachlorophenol	<7.5		7.5	1.9	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
N-Nitrosodiphenylamine	<1.9		1.9	0.51	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
4,6-Dinitro-2-methylphenol	<3.7		3.7	0.91	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Phenanthrene	0.40		0.37	0.16	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Anthracene	<0.37		0.37	0.088	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Carbazole	<1.9	*	1.9	0.53	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Di-n-butyl phthalate	<1.9		1.9	0.47	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Fluoranthene	0.96		0.37	0.15	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Pyrene	1.1		0.37	0.14	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Butyl benzyl phthalate	<1.9		1.9	0.47	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Benzo[a]anthracene	0.46		0.37	0.078	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-10

Client Sample ID: 846D-148-B01

Lab Sample ID: 500-59862-22

Date Collected: 07/25/13 12:05

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 86.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.67		0.37	0.084	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
3,3'-Dichlorobenzidine	<1.9		1.9	0.31	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Bis(2-ethylhexyl) phthalate	<1.9		1.9	0.50	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Di-n-octyl phthalate	<1.9		1.9	0.76	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Benzo[b]fluoranthene	1.3		0.37	0.073	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Benzo[k]fluoranthene	0.57		0.37	0.089	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Benzo[a]pyrene	0.79		0.37	0.068	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Indeno[1,2,3-cd]pyrene	0.39		0.37	0.13	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Dibenz(a,h)anthracene	0.18	J	0.37	0.10	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
Benzo[g,h,i]perylene	0.54		0.37	0.13	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1
3 & 4 Methylphenol	<1.9		1.9	0.71	mg/Kg	☼	08/04/13 20:28	08/13/13 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		30 - 110	08/04/13 20:28	08/13/13 20:03	1
Phenol-d5	98		31 - 110	08/04/13 20:28	08/13/13 20:03	1
Nitrobenzene-d5	103		30 - 115	08/04/13 20:28	08/13/13 20:03	1
2-Fluorobiphenyl	114		30 - 119	08/04/13 20:28	08/13/13 20:03	1
2,4,6-Tribromophenol	154	X	35 - 137	08/04/13 20:28	08/13/13 20:03	1
Terphenyl-d14	131		36 - 134	08/04/13 20:28	08/13/13 20:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Arsenic	7.9		0.53	0.11	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Barium	52		0.53	0.057	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Beryllium	0.52		0.21	0.019	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Boron	4.7		2.6	0.11	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Cadmium	0.66		0.11	0.013	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Calcium	33000	B	11	2.9	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Chromium	17		0.53	0.061	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Cobalt	9.3		0.26	0.019	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Copper	25	B	0.53	0.047	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Iron	18000		11	4.3	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Lead	61		0.26	0.079	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Magnesium	21000	B	5.3	1.1	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Manganese	320		0.53	0.029	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Nickel	21		0.53	0.052	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Potassium	1500		26	1.6	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Sodium	2000		53	7.1	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Thallium	0.26	J	0.53	0.22	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Vanadium	15		0.26	0.039	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1
Zinc	63	B	1.1	0.21	mg/Kg	☼	07/28/13 16:30	07/30/13 19:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/16/13 09:30	08/19/13 14:56	1
Chromium	<0.025		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 14:56	1
Iron	<0.20		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 14:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-10

Client Sample ID: 846D-148-B01

Lab Sample ID: 500-59862-22

Date Collected: 07/25/13 12:05

Matrix: Solid

Date Received: 07/26/13 06:00

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0093		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 14:56	1
Manganese	6.1		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 14:56	1
Nickel	0.020	J	0.025	0.010	mg/L		08/16/13 09:30	08/19/13 14:56	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.4		0.50	0.010	mg/L		07/30/13 10:45	08/07/13 19:02	1
Beryllium	0.0080		0.0040	0.0040	mg/L		07/30/13 10:45	08/07/13 19:02	1
Boron	0.87		0.10	0.050	mg/L		07/30/13 10:45	08/07/13 19:02	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		07/30/13 10:45	08/07/13 19:02	1
Chromium	0.21		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:02	1
Cobalt	0.080		0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 19:02	1
Iron	190		0.20	0.20	mg/L		07/30/13 10:45	08/07/13 19:02	1
Lead	0.25		0.0075	0.0050	mg/L		07/30/13 10:45	08/07/13 19:02	1
Manganese	2.4		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:02	1
Nickel	0.21		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:02	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:45	08/07/13 19:02	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 19:02	1
Zinc	1.0		0.10	0.020	mg/L		07/30/13 10:45	08/07/13 19:02	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		08/16/13 09:30	08/19/13 12:47	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:45	08/09/13 16:11	1
Thallium	0.0030		0.0020	0.0020	mg/L		07/30/13 10:45	08/09/13 16:11	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00032		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 11:08	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.019	0.0088	mg/Kg	☼	07/30/13 17:45	07/31/13 10:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.76		0.200	0.200	SU			08/08/13 17:54	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-10

Client Sample ID: 846D-148-B02

Lab Sample ID: 500-59862-23

Date Collected: 07/25/13 13:25

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 84.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.046		0.0058	0.0025	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Benzene	<0.0058		0.0058	0.00079	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Bromodichloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Bromoform	<0.0058		0.0058	0.0013	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Bromomethane	<0.0058		0.0058	0.0018	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
2-Butanone (MEK)	0.0087		0.0058	0.0021	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Carbon disulfide	<0.0058		0.0058	0.00087	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Carbon tetrachloride	<0.0058		0.0058	0.0011	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Chlorobenzene	<0.0058		0.0058	0.00059	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Chloroethane	<0.0058		0.0058	0.0016	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Chloroform	<0.0058		0.0058	0.00067	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Chloromethane	<0.0058		0.0058	0.0012	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
cis-1,2-Dichloroethene	<0.0058		0.0058	0.00082	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
cis-1,3-Dichloropropene	<0.0058		0.0058	0.00076	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Dibromochloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
1,1-Dichloroethane	<0.0058		0.0058	0.00092	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
1,2-Dichloroethane	<0.0058		0.0058	0.00086	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
1,1-Dichloroethene	<0.0058		0.0058	0.00094	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
1,2-Dichloropropane	<0.0058		0.0058	0.00088	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
1,3-Dichloropropene, Total	<0.0058		0.0058	0.00076	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Ethylbenzene	<0.0058		0.0058	0.0012	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
2-Hexanone	<0.0058		0.0058	0.0017	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Methylene Chloride	<0.0058		0.0058	0.0016	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0015	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Methyl tert-butyl ether	<0.0058		0.0058	0.00096	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Styrene	<0.0058		0.0058	0.00076	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
1,1,1,2-Tetrachloroethane	<0.0058		0.0058	0.0012	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Tetrachloroethene	<0.0058		0.0058	0.00089	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Toluene	<0.0058		0.0058	0.00081	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
trans-1,2-Dichloroethene	<0.0058		0.0058	0.00080	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
trans-1,3-Dichloropropene	<0.0058		0.0058	0.0010	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
1,1,1-Trichloroethane	<0.0058		0.0058	0.00087	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
1,1,2-Trichloroethane	<0.0058		0.0058	0.00079	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Trichloroethene	<0.0058		0.0058	0.00096	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Vinyl acetate	<0.0058		0.0058	0.00091	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Vinyl chloride	<0.0058		0.0058	0.0012	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1
Xylenes, Total	<0.012		0.012	0.00053	mg/Kg	☼	07/25/13 13:25	08/05/13 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	07/25/13 13:25	08/05/13 16:53	1
Dibromofluoromethane	103		75 - 120	07/25/13 13:25	08/05/13 16:53	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	07/25/13 13:25	08/05/13 16:53	1
Toluene-d8 (Surr)	97		75 - 122	07/25/13 13:25	08/05/13 16:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-10

Client Sample ID: 846D-148-B02

Lab Sample ID: 500-59862-23

Date Collected: 07/25/13 13:25

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
2,4-Dimethylphenol	<0.38	*	0.38	0.12	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
2,4-Dinitrophenol	<0.77	*	0.77	0.20	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
4-Bromophenyl phenyl ether	<0.19	*	0.19	0.043	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Diethyl phthalate	<0.19	*	0.19	0.064	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Phenanthrene	0.016	J	0.038	0.016	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Carbazole	<0.19	*	0.19	0.054	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Fluoranthene	0.024	J	0.038	0.016	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Pyrene	0.028	J	0.038	0.014	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Benzo[a]anthracene	0.012	J	0.038	0.0080	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-10

Client Sample ID: 846D-148-B02

Lab Sample ID: 500-59862-23

Date Collected: 07/25/13 13:25

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.029	J	0.038	0.0086	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Benzo[b]fluoranthene	0.027	J	0.038	0.0074	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Benzo[k]fluoranthene	0.011	J	0.038	0.0091	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Benzo[a]pyrene	0.018	J	0.038	0.0069	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.038	0.013	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
Benzo[g,h,i]perylene	0.020	J	0.038	0.013	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	08/04/13 20:28	08/09/13 21:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		30 - 110	08/04/13 20:28	08/09/13 21:28	1
Phenol-d5	70		31 - 110	08/04/13 20:28	08/09/13 21:28	1
Nitrobenzene-d5	57		30 - 115	08/04/13 20:28	08/09/13 21:28	1
2-Fluorobiphenyl	70		30 - 119	08/04/13 20:28	08/09/13 21:28	1
2,4,6-Tribromophenol	68		35 - 137	08/04/13 20:28	08/09/13 21:28	1
Terphenyl-d14	99		36 - 134	08/04/13 20:28	08/09/13 21:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Arsenic	7.4		0.58	0.12	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Barium	27		0.58	0.062	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Beryllium	0.35		0.23	0.021	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Boron	4.2		2.9	0.12	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Cadmium	0.47		0.12	0.015	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Calcium	30000	B	12	3.2	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Chromium	9.2		0.58	0.068	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Cobalt	8.1		0.29	0.021	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Copper	23	B	0.58	0.052	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Iron	12000		12	4.8	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Lead	15		0.29	0.087	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Magnesium	18000	B	5.8	1.2	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Manganese	320		0.58	0.032	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Nickel	19		0.58	0.057	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Potassium	1200		29	1.8	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Sodium	180		58	7.8	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Thallium	0.37	J	0.58	0.25	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Vanadium	12		0.29	0.043	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1
Zinc	45	B	1.2	0.24	mg/Kg	☼	07/28/13 16:30	07/30/13 19:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 15:02	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 15:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-10

Client Sample ID: 846D-148-B02

Lab Sample ID: 500-59862-23

Date Collected: 07/25/13 13:25

Matrix: Solid

Date Received: 07/26/13 06:00

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.42	J	0.50	0.010	mg/L		07/30/13 10:45	08/07/13 19:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:45	08/07/13 19:15	1
Boron	0.75		0.10	0.050	mg/L		07/30/13 10:45	08/07/13 19:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:45	08/07/13 19:15	1
Chromium	0.019	J	0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:15	1
Cobalt	0.0059	J	0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 19:15	1
Iron	14		0.20	0.20	mg/L		07/30/13 10:45	08/07/13 19:15	1
Lead	0.019		0.0075	0.0050	mg/L		07/30/13 10:45	08/07/13 19:15	1
Manganese	0.082		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:15	1
Nickel	0.016	J	0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:15	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:45	08/07/13 19:15	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 19:15	1
Zinc	0.35		0.10	0.020	mg/L		07/30/13 10:45	08/07/13 19:15	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:45	08/09/13 16:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:45	08/09/13 16:12	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 11:10	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0083	mg/Kg	☆	07/30/13 17:45	07/31/13 10:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.35		0.200	0.200	SU			08/08/13 17:58	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-10

Client Sample ID: 846D-148-B03

Lab Sample ID: 500-59862-24

Date Collected: 07/25/13 13:30

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 84.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.010		0.0049	0.0021	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	07/25/13 13:30	08/05/13 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	07/25/13 13:30	08/05/13 17:15	1
Dibromofluoromethane	108		75 - 120	07/25/13 13:30	08/05/13 17:15	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	07/25/13 13:30	08/05/13 17:15	1
Toluene-d8 (Surr)	96		75 - 122	07/25/13 13:30	08/05/13 17:15	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	☼	08/04/13 20:28	08/09/13 19:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-10

Client Sample ID: 846D-148-B03

Lab Sample ID: 500-59862-24

Date Collected: 07/25/13 13:30

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
2,4-Dimethylphenol	<0.37	*	0.37	0.12	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
2,4-Dinitrophenol	<0.75	*	0.75	0.19	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
4-Bromophenyl phenyl ether	<0.19	*	0.19	0.042	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Hexachlorobenzene	<0.075		0.075	0.0074	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Diethyl phthalate	<0.19	*	0.19	0.062	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Carbazole	<0.19	*	0.19	0.053	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Pyrene	0.017	J	0.037	0.014	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Benzo[a]anthracene	0.0094	J	0.037	0.0078	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-10

Client Sample ID: 846D-148-B03

Lab Sample ID: 500-59862-24

Date Collected: 07/25/13 13:30

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.019	J	0.037	0.0084	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Benzo[b]fluoranthene	0.020	J	0.037	0.0073	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Benzo[a]pyrene	0.013	J	0.037	0.0068	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.037	0.013	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	08/04/13 20:28	08/09/13 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		30 - 110				08/04/13 20:28	08/09/13 19:01	1
Phenol-d5	76		31 - 110				08/04/13 20:28	08/09/13 19:01	1
Nitrobenzene-d5	62		30 - 115				08/04/13 20:28	08/09/13 19:01	1
2-Fluorobiphenyl	73		30 - 119				08/04/13 20:28	08/09/13 19:01	1
2,4,6-Tribromophenol	77		35 - 137				08/04/13 20:28	08/09/13 19:01	1
Terphenyl-d14	112		36 - 134				08/04/13 20:28	08/09/13 19:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Arsenic	3.2		0.59	0.12	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Barium	51		0.59	0.063	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Beryllium	0.50		0.23	0.021	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Boron	2.4	J	2.9	0.12	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Cadmium	0.46		0.12	0.015	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Calcium	5900	B	12	3.2	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Chromium	10		0.59	0.068	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Cobalt	5.5		0.29	0.021	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Copper	21	B	0.59	0.052	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Iron	9000		12	4.8	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Lead	21		0.29	0.087	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Magnesium	3600	B	5.9	1.2	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Manganese	95		0.59	0.032	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Nickel	18		0.59	0.057	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Potassium	920		29	1.8	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Selenium	0.52	J	0.59	0.21	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Sodium	310		59	7.8	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Thallium	0.31	J	0.59	0.25	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Vanadium	13		0.29	0.043	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1
Zinc	44	B	1.2	0.24	mg/Kg	☼	07/28/13 16:30	07/30/13 20:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.26		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 15:09	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 15:09	1
Manganese	1.3		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 15:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-10

Client Sample ID: 846D-148-B03

Lab Sample ID: 500-59862-24

Date Collected: 07/25/13 13:30

Matrix: Solid

Date Received: 07/26/13 06:00

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.54		0.50	0.010	mg/L		07/30/13 10:45	08/07/13 19:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:45	08/07/13 19:31	1
Boron	0.86		0.10	0.050	mg/L		07/30/13 10:45	08/07/13 19:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:45	08/07/13 19:31	1
Chromium	0.042		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:31	1
Cobalt	0.017	J	0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 19:31	1
Iron	45		0.20	0.20	mg/L		07/30/13 10:45	08/07/13 19:31	1
Lead	0.059		0.0075	0.0050	mg/L		07/30/13 10:45	08/07/13 19:31	1
Manganese	0.19		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:31	1
Nickel	0.043		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:31	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:45	08/07/13 19:31	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 19:31	1
Zinc	0.46		0.10	0.020	mg/L		07/30/13 10:45	08/07/13 19:31	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:45	08/09/13 16:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:45	08/09/13 16:15	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000042	J	0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 11:16	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.0089	mg/Kg	☆	07/30/13 17:45	07/31/13 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.16		0.200	0.200	SU			08/08/13 18:01	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-10

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



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: US6/IL7Wille/Cook Co Project No.: IDOT 2013-022 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 KM + TT Sampler:	COC No.: 1 of 1 Lab Job No.: 500-59862 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.																
ANALYSES																
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
22	846D-148-B01	7/25/13	12:05P	S	X	X					X	X	X	X		0-1'
23	846D-148-B02		1:25	S	X	X					X	X	X	X		0-1'
24	846D-148-B03		1:35	S	X	X					X	X	X	X		0-1'
25	846D-148-B04	Y	2:05	S	X	X					X	X	X	X		0-1'
Relinquished by: Daniel J. MacVinson (AEI) Date/Time: 7/25/13 4:15 Relinquished by: <i>[Signature]</i> Date/Time: 7-27-13/1700 Relinquished by: <i>[Signature]</i> Date/Time: 7/26/13 0600																



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 351 (U.S. 6/IL 7) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

9915 159th Street

City: Orland Park State: IL Zip Code: 60467

County: Cook Township: Orland

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.60101 Longitude: -87.86233
(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: 0314730019 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 351 (U.S. 6/IL 7)
Latitude: 41.60101 Longitude: -87.86233

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 846D-149-B01 THRU -B03 WERE SAMPLED ADJACENT TO SITE No. 846D-149. SEE FIGURE 11 AND TABLE 3aa OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-59862-11

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman (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.

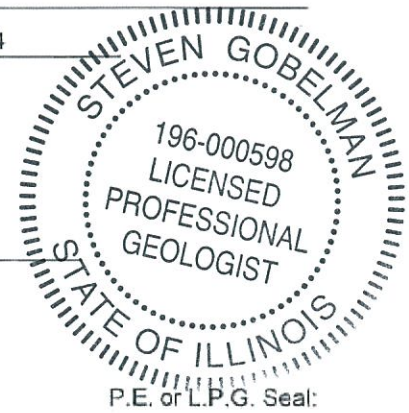
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment
Street Address: 2300 South Dirksen Parkway
City: Springfield State: IL Zip Code: 62764
Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.
Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

9/24/14
Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
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
Semivolatile Organic Compounds (mg/kg)
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

Semivolatile Organic Compounds (mg/kg) (cont.)
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
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
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 846D-149
Cosco Wholesale

Sample ID	846D-149-B01	846D-149-B02	846D-149-B02 DUP	846D-149-B03						
Sample Depth (ft)	0-1	0-1	0-1	0-1						
Sample Date	7/25/2013	7/25/2013	7/25/2013	7/25/2013						
PID	0	0	0	0						
Sample pH	8.34	7.92	7.1	6.83						
Matrix	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.										
					¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-59862-11

Client Project/Site: IDOT - US 6/IL 7 - WO 022

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

8/19/2013 5:16:26 PM

Richard Wright, Project Manager II

richard.wright@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

Client Sample ID: 846D-149-B01

Lab Sample ID: 500-59862-26

Date Collected: 07/25/13 14:25

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0054		0.0054	0.0023	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Benzene	<0.0054		0.0054	0.00074	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Bromodichloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
2-Butanone (MEK)	<0.0054		0.0054	0.0020	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Carbon disulfide	<0.0054		0.0054	0.00081	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Carbon tetrachloride	<0.0054		0.0054	0.00098	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Chlorobenzene	<0.0054		0.0054	0.00055	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Chloroethane	<0.0054		0.0054	0.0015	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00071	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Dibromochloromethane	<0.0054		0.0054	0.00094	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
1,1-Dichloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
1,1,1-Dichloroethane	<0.0054		0.0054	0.00087	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
1,2-Dichloropropane	<0.0054		0.0054	0.00082	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00071	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
2-Hexanone	<0.0054		0.0054	0.0016	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00089	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Styrene	<0.0054		0.0054	0.00071	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
1,1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Tetrachloroethene	<0.0054		0.0054	0.00082	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Toluene	<0.0054		0.0054	0.00076	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00074	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00097	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00081	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00074	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Trichloroethene	<0.0054		0.0054	0.00089	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Vinyl acetate	<0.0054		0.0054	0.00085	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	07/25/13 14:25	08/05/13 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	07/25/13 14:25	08/05/13 18:01	1
Dibromofluoromethane	107		75 - 120	07/25/13 14:25	08/05/13 18:01	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/25/13 14:25	08/05/13 18:01	1
Toluene-d8 (Surr)	94		75 - 122	07/25/13 14:25	08/05/13 18:01	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	☼	08/04/13 20:28	08/09/13 19:43	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

Client Sample ID: 846D-149-B01

Lab Sample ID: 500-59862-26

Date Collected: 07/25/13 14:25

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
2-Methylphenol	<0.21		0.21	0.054	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.045	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
2,4-Dimethylphenol	<0.41	*	0.41	0.13	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
4-Chloroaniline	<0.83		0.83	0.12	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
2,4,6-Trichlorophenol	<0.41		0.41	0.051	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
2,4-Dinitrophenol	<0.83	*	0.83	0.21	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Acenaphthylene	<0.041		0.041	0.0094	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
4-Bromophenyl phenyl ether	<0.21	*	0.21	0.046	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Diethyl phthalate	<0.21	*	0.21	0.068	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
N-Nitrosodiphenylamine	<0.21		0.21	0.055	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.099	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Phenanthrene	0.046		0.041	0.017	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Anthracene	0.024	J	0.041	0.0096	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Carbazole	<0.21	*	0.21	0.058	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Fluoranthene	0.098		0.041	0.017	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Pyrene	0.090		0.041	0.015	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Benzo[a]anthracene	0.049		0.041	0.0086	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

Client Sample ID: 846D-149-B01

Lab Sample ID: 500-59862-26

Date Collected: 07/25/13 14:25

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.056		0.041	0.0093	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Benzo[b]fluoranthene	0.067		0.041	0.0080	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Benzo[k]fluoranthene	0.023 J		0.041	0.0098	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Benzo[a]pyrene	0.045		0.041	0.0075	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Indeno[1,2,3-cd]pyrene	0.031 J		0.041	0.014	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Dibenz(a,h)anthracene	0.014 J		0.041	0.011	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Benzo[g,h,i]perylene	0.029 J		0.041	0.014	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	08/04/13 20:28	08/09/13 19:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		30 - 110				08/04/13 20:28	08/09/13 19:43	1
Phenol-d5	67		31 - 110				08/04/13 20:28	08/09/13 19:43	1
Nitrobenzene-d5	54		30 - 115				08/04/13 20:28	08/09/13 19:43	1
2-Fluorobiphenyl	67		30 - 119				08/04/13 20:28	08/09/13 19:43	1
2,4,6-Tribromophenol	66		35 - 137				08/04/13 20:28	08/09/13 19:43	1
Terphenyl-d14	99		36 - 134				08/04/13 20:28	08/09/13 19:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Arsenic	6.9		0.60	0.12	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Barium	81		0.60	0.064	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Beryllium	0.66		0.24	0.021	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Boron	3.6		3.0	0.13	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Cadmium	0.51		0.12	0.015	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Calcium	14000 B		12	3.3	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Chromium	15		0.60	0.070	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Cobalt	8.2		0.30	0.021	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Copper	19 B		0.60	0.053	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Iron	17000		12	4.9	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Lead	16		0.30	0.090	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Magnesium	7500 B		6.0	1.2	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Manganese	310		0.60	0.033	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Nickel	21		0.60	0.059	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Potassium	1300		30	1.8	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Selenium	0.28 J		0.60	0.21	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Sodium	200		60	8.1	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Thallium	0.25 J		0.60	0.25	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Vanadium	20		0.30	0.044	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1
Zinc	50 B		1.2	0.24	mg/Kg	☼	07/28/13 16:30	07/30/13 20:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 15:21	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 15:21	1
Manganese	0.97		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 15:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

Client Sample ID: 846D-149-B01

Lab Sample ID: 500-59862-26

Date Collected: 07/25/13 14:25

Matrix: Solid

Date Received: 07/26/13 06:00

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.69		0.50	0.010	mg/L		07/30/13 10:45	08/07/13 19:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:45	08/07/13 19:39	1
Boron	0.82		0.10	0.050	mg/L		07/30/13 10:45	08/07/13 19:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:45	08/07/13 19:39	1
Chromium	0.064		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:39	1
Cobalt	0.019	J	0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 19:39	1
Iron	61		0.20	0.20	mg/L		07/30/13 10:45	08/07/13 19:39	1
Lead	0.041		0.0075	0.0050	mg/L		07/30/13 10:45	08/07/13 19:39	1
Manganese	0.49		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:39	1
Nickel	0.066		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:39	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:45	08/07/13 19:39	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 19:39	1
Zinc	0.50		0.10	0.020	mg/L		07/30/13 10:45	08/07/13 19:39	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:45	08/09/13 16:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:45	08/09/13 16:17	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000097	J	0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 11:20	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.072		0.019	0.0091	mg/Kg	✱	07/30/13 17:45	07/31/13 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.34		0.200	0.200	SU			08/08/13 18:08	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

Client Sample ID: 846D-149-B02

Lab Sample ID: 500-59862-27

Date Collected: 07/25/13 14:30

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 77.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.023		0.0055	0.0024	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Benzene	<0.0055		0.0055	0.00075	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Bromodichloromethane	<0.0055		0.0055	0.00094	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Bromoform	<0.0055		0.0055	0.0013	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Bromomethane	<0.0055		0.0055	0.0017	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
2-Butanone (MEK)	0.0047	J	0.0055	0.0020	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Carbon disulfide	<0.0055		0.0055	0.00082	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Carbon tetrachloride	<0.0055		0.0055	0.0010	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Chlorobenzene	<0.0055		0.0055	0.00055	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Chloroethane	<0.0055		0.0055	0.0015	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Chloroform	<0.0055		0.0055	0.00063	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Chloromethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.00077	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.00072	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Dibromochloromethane	<0.0055		0.0055	0.00095	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
1,1-Dichloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
1,1-Dichloroethene	<0.0055		0.0055	0.00088	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
1,2-Dichloropropane	<0.0055		0.0055	0.00083	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.00072	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Ethylbenzene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
2-Hexanone	<0.0055		0.0055	0.0016	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Methylene Chloride	<0.0055		0.0055	0.0015	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0014	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Methyl tert-butyl ether	<0.0055		0.0055	0.00090	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Styrene	<0.0055		0.0055	0.00072	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
1,1,1,2-Tetrachloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Tetrachloroethene	<0.0055		0.0055	0.00084	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Toluene	<0.0055		0.0055	0.00077	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.00075	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.00098	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.00075	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Trichloroethene	<0.0055		0.0055	0.00090	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Vinyl acetate	<0.0055		0.0055	0.00086	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Vinyl chloride	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1
Xylenes, Total	<0.011		0.011	0.00050	mg/Kg	☼	07/25/13 14:30	08/05/13 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	07/25/13 14:30	08/05/13 18:24	1
Dibromofluoromethane	110		75 - 120	07/25/13 14:30	08/05/13 18:24	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/25/13 14:30	08/05/13 18:24	1
Toluene-d8 (Surr)	98		75 - 122	07/25/13 14:30	08/05/13 18:24	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	☼	08/04/13 20:28	08/09/13 20:04	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

Client Sample ID: 846D-149-B02

Lab Sample ID: 500-59862-27

Date Collected: 07/25/13 14:30

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 77.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
2,4-Dimethylphenol	<0.41	*	0.41	0.13	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
4-Chloroaniline	<0.83		0.83	0.13	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
2,4-Dinitrophenol	<0.83	*	0.83	0.21	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Acenaphthylene	<0.041		0.041	0.0094	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
4-Bromophenyl phenyl ether	<0.21	*	0.21	0.046	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Diethyl phthalate	<0.21	*	0.21	0.069	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Carbazole	<0.21	*	0.21	0.058	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Fluoranthene	0.021	J	0.041	0.017	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Pyrene	0.024	J	0.041	0.015	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Benzo[a]anthracene	0.014	J	0.041	0.0086	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

Client Sample ID: 846D-149-B02

Lab Sample ID: 500-59862-27

Date Collected: 07/25/13 14:30

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 77.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.019	J	0.041	0.0093	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Benzo[b]fluoranthene	0.022	J	0.041	0.0080	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Benzo[k]fluoranthene	<0.041		0.041	0.0098	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Benzo[a]pyrene	0.018	J	0.041	0.0075	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Indeno[1,2,3-cd]pyrene	0.017	J	0.041	0.014	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	08/04/13 20:28	08/09/13 20:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		30 - 110				08/04/13 20:28	08/09/13 20:04	1
Phenol-d5	58		31 - 110				08/04/13 20:28	08/09/13 20:04	1
Nitrobenzene-d5	49		30 - 115				08/04/13 20:28	08/09/13 20:04	1
2-Fluorobiphenyl	58		30 - 119				08/04/13 20:28	08/09/13 20:04	1
2,4,6-Tribromophenol	63		35 - 137				08/04/13 20:28	08/09/13 20:04	1
Terphenyl-d14	100		36 - 134				08/04/13 20:28	08/09/13 20:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.52	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Arsenic	7.2		0.64	0.13	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Barium	92		0.64	0.069	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Beryllium	0.77		0.26	0.023	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Boron	5.2		3.2	0.13	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Cadmium	0.31		0.13	0.016	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Calcium	3800	B	13	3.5	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Chromium	20		0.64	0.075	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Cobalt	14		0.32	0.023	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Copper	20		0.64	0.057	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Iron	20000	B	13	5.3	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Lead	29		0.32	0.096	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Magnesium	3900		6.4	1.3	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Manganese	410	B	0.64	0.035	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Nickel	28		0.64	0.063	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Potassium	1800		32	1.9	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Selenium	0.91		0.64	0.23	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Sodium	130		64	8.6	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Thallium	<0.64		0.64	0.27	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Vanadium	26		0.32	0.048	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1
Zinc	76	B	1.3	0.26	mg/Kg	☼	07/29/13 14:00	08/03/13 02:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.6		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 15:27	1
Lead	0.010		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 15:27	1
Manganese	2.1		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 15:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

Client Sample ID: 846D-149-B02

Lab Sample ID: 500-59862-27

Date Collected: 07/25/13 14:30

Matrix: Solid

Date Received: 07/26/13 06:00

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59		0.50	0.010	mg/L		07/30/13 10:45	08/07/13 19:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:45	08/07/13 19:43	1
Boron	0.76		0.10	0.050	mg/L		07/30/13 10:45	08/07/13 19:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:45	08/07/13 19:43	1
Chromium	0.048		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:43	1
Cobalt	0.0092	J	0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 19:43	1
Iron	37		0.20	0.20	mg/L		07/30/13 10:45	08/07/13 19:43	1
Lead	0.033		0.0075	0.0050	mg/L		07/30/13 10:45	08/07/13 19:43	1
Manganese	0.18		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:43	1
Nickel	0.041		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:43	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:45	08/07/13 19:43	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 19:43	1
Zinc	0.43		0.10	0.020	mg/L		07/30/13 10:45	08/07/13 19:43	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:45	08/09/13 16:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:45	08/09/13 16:18	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000080	J	0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 11:22	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.020	0.0093	mg/Kg	☆	07/30/13 17:45	07/31/13 10:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.92		0.200	0.200	SU			08/08/13 18:12	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

Client Sample ID: 846D-149-B02 Dup

Lab Sample ID: 500-59862-28

Date Collected: 07/25/13 14:35

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 82.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012		0.0055	0.0024	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Benzene	<0.0055		0.0055	0.00075	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Bromodichloromethane	<0.0055		0.0055	0.00094	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Bromoform	<0.0055		0.0055	0.0013	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Bromomethane	<0.0055		0.0055	0.0016	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
2-Butanone (MEK)	0.0027	J	0.0055	0.0020	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Carbon disulfide	<0.0055		0.0055	0.00081	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Carbon tetrachloride	<0.0055		0.0055	0.00099	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Chlorobenzene	<0.0055		0.0055	0.00055	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Chloroethane	<0.0055		0.0055	0.0015	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Chloroform	<0.0055		0.0055	0.00063	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Chloromethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.00077	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.00072	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Dibromochloromethane	<0.0055		0.0055	0.00095	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
1,1-Dichloroethane	<0.0055		0.0055	0.00086	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
1,1,1-Dichloroethane	<0.0055		0.0055	0.00088	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
1,2-Dichloropropane	<0.0055		0.0055	0.00083	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.00072	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Ethylbenzene	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
2-Hexanone	<0.0055		0.0055	0.0016	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Methylene Chloride	<0.0055		0.0055	0.0015	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0014	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Methyl tert-butyl ether	<0.0055		0.0055	0.00090	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Styrene	<0.0055		0.0055	0.00072	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
1,1,1,2-Tetrachloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Tetrachloroethene	<0.0055		0.0055	0.00083	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Toluene	<0.0055		0.0055	0.00076	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.00075	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.00098	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.00074	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Trichloroethene	<0.0055		0.0055	0.00090	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Vinyl acetate	<0.0055		0.0055	0.00086	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Vinyl chloride	<0.0055		0.0055	0.0011	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	07/25/13 14:35	08/05/13 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	07/25/13 14:35	08/05/13 18:46	1
Dibromofluoromethane	105		75 - 120	07/25/13 14:35	08/05/13 18:46	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	07/25/13 14:35	08/05/13 18:46	1
Toluene-d8 (Surr)	97		75 - 122	07/25/13 14:35	08/05/13 18:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

Client Sample ID: 846D-149-B02 Dup

Lab Sample ID: 500-59862-28

Date Collected: 07/25/13 14:35

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
2,4-Dimethylphenol	<0.40	*	0.40	0.12	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
2,4-Dinitrophenol	<0.81	*	0.81	0.20	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
4-Bromophenyl phenyl ether	<0.20	*	0.20	0.045	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Diethyl phthalate	<0.20	*	0.20	0.067	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Carbazole	<0.20	*	0.20	0.056	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Pyrene	0.015	J	0.040	0.014	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Benzo[a]anthracene	0.0099	J	0.040	0.0084	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

Client Sample ID: 846D-149-B02 Dup

Lab Sample ID: 500-59862-28

Date Collected: 07/25/13 14:35

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.040	0.0090	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Benzo[b]fluoranthene	0.016	J	0.040	0.0078	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Benzo[a]pyrene	0.014	J	0.040	0.0073	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.040	0.013	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	08/04/13 20:28	08/09/13 20:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	61		30 - 110				08/04/13 20:28	08/09/13 20:25	1
Phenol-d5	65		31 - 110				08/04/13 20:28	08/09/13 20:25	1
Nitrobenzene-d5	55		30 - 115				08/04/13 20:28	08/09/13 20:25	1
2-Fluorobiphenyl	61		30 - 119				08/04/13 20:28	08/09/13 20:25	1
2,4,6-Tribromophenol	60		35 - 137				08/04/13 20:28	08/09/13 20:25	1
Terphenyl-d14	97		36 - 134				08/04/13 20:28	08/09/13 20:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Arsenic	5.5		0.59	0.12	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Barium	93		0.59	0.063	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Beryllium	0.68		0.23	0.021	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Boron	3.5		2.9	0.12	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Cadmium	0.33		0.12	0.015	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Calcium	3700	B	12	3.2	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Chromium	17		0.59	0.068	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Cobalt	11		0.29	0.021	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Copper	18		0.59	0.052	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Iron	17000	B	12	4.8	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Lead	21		0.29	0.087	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Magnesium	3300		5.9	1.2	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Manganese	330	B	0.59	0.032	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Nickel	23		0.59	0.057	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Potassium	1300		29	1.8	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Selenium	0.57	J	0.59	0.21	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Sodium	99		59	7.9	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Thallium	<0.59		0.59	0.25	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Vanadium	22		0.29	0.043	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1
Zinc	70	B	1.2	0.24	mg/Kg	☼	07/29/13 14:00	08/03/13 02:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.1		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 15:33	1
Lead	0.0076		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 15:33	1
Manganese	2.1		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 15:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

Client Sample ID: 846D-149-B02 Dup

Lab Sample ID: 500-59862-28

Date Collected: 07/25/13 14:35

Matrix: Solid

Date Received: 07/26/13 06:00

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71		0.50	0.010	mg/L		07/30/13 10:45	08/07/13 19:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:45	08/07/13 19:47	1
Boron	0.91		0.10	0.050	mg/L		07/30/13 10:45	08/07/13 19:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:45	08/07/13 19:47	1
Chromium	0.058		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:47	1
Cobalt	0.014	J	0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 19:47	1
Iron	45		0.20	0.20	mg/L		07/30/13 10:45	08/07/13 19:47	1
Lead	0.038		0.0075	0.0050	mg/L		07/30/13 10:45	08/07/13 19:47	1
Manganese	0.24		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:47	1
Nickel	0.052		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:47	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:45	08/07/13 19:47	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 19:47	1
Zinc	0.53		0.10	0.020	mg/L		07/30/13 10:45	08/07/13 19:47	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:45	08/09/13 16:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:45	08/09/13 16:19	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00010	J	0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 11:24	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.019	0.0089	mg/Kg	☆	07/30/13 17:45	07/31/13 10:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.10		0.200	0.200	SU			08/08/13 18:16	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

Client Sample ID: 846D-149-B03

Lab Sample ID: 500-59862-29

Date Collected: 07/25/13 14:40

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Benzene	<0.0051		0.0051	0.00069	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Carbon tetrachloride	<0.0051		0.0051	0.00092	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Chlorobenzene	<0.0051		0.0051	0.00051	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Chloroform	<0.0051		0.0051	0.00058	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00066	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Dibromochloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00066	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Styrene	<0.0051		0.0051	0.00066	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Tetrachloroethene	<0.0051		0.0051	0.00077	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	07/25/13 14:40	08/05/13 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	07/25/13 14:40	08/05/13 19:09	1
Dibromofluoromethane	105		75 - 120	07/25/13 14:40	08/05/13 19:09	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	07/25/13 14:40	08/05/13 19:09	1
Toluene-d8 (Surr)	97		75 - 122	07/25/13 14:40	08/05/13 19:09	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	☼	08/04/13 20:28	08/09/13 20:46	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

Client Sample ID: 846D-149-B03

Lab Sample ID: 500-59862-29

Date Collected: 07/25/13 14:40

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
2,4-Dimethylphenol	<0.39	*	0.39	0.12	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
2,4-Dinitrophenol	<0.79	*	0.79	0.20	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
4-Bromophenyl phenyl ether	<0.20	*	0.20	0.044	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Diethyl phthalate	<0.20	*	0.20	0.066	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Carbazole	<0.20	*	0.20	0.055	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

Client Sample ID: 846D-149-B03

Lab Sample ID: 500-59862-29

Date Collected: 07/25/13 14:40

Matrix: Solid

Date Received: 07/26/13 06:00

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.0097	J	0.039	0.0089	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Benzo[b]fluoranthene	0.013	J	0.039	0.0076	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Benzo[a]pyrene	0.011	J	0.039	0.0072	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Indeno[1,2,3-cd]pyrene	0.013	J	0.039	0.013	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	08/04/13 20:28	08/09/13 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		30 - 110	08/04/13 20:28	08/09/13 20:46	1
Phenol-d5	61		31 - 110	08/04/13 20:28	08/09/13 20:46	1
Nitrobenzene-d5	53		30 - 115	08/04/13 20:28	08/09/13 20:46	1
2-Fluorobiphenyl	60		30 - 119	08/04/13 20:28	08/09/13 20:46	1
2,4,6-Tribromophenol	61		35 - 137	08/04/13 20:28	08/09/13 20:46	1
Terphenyl-d14	109		36 - 134	08/04/13 20:28	08/09/13 20:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Arsenic	4.5		0.60	0.12	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Barium	98		0.60	0.064	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Beryllium	0.75		0.24	0.021	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Boron	3.9		3.0	0.13	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Cadmium	0.29		0.12	0.015	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Calcium	4700	B	12	3.2	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Chromium	18		0.60	0.069	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Cobalt	11		0.30	0.021	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Copper	17		0.60	0.053	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Iron	17000	B	12	4.9	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Lead	18		0.30	0.089	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Magnesium	3900		6.0	1.2	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Manganese	400	B	0.60	0.032	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Nickel	26		0.60	0.059	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Potassium	1500		30	1.8	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Selenium	0.63		0.60	0.21	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Sodium	99		60	8.0	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Thallium	<0.60		0.60	0.25	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Vanadium	23		0.30	0.044	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1
Zinc	65	B	1.2	0.24	mg/Kg	☼	07/29/13 14:00	08/03/13 02:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.21		0.20	0.20	mg/L		08/16/13 09:30	08/19/13 15:40	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/16/13 09:30	08/19/13 15:40	1
Manganese	0.29		0.025	0.010	mg/L		08/16/13 09:30	08/19/13 15:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

Client Sample ID: 846D-149-B03

Lab Sample ID: 500-59862-29

Date Collected: 07/25/13 14:40

Matrix: Solid

Date Received: 07/26/13 06:00

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.76		0.50	0.010	mg/L		07/30/13 10:45	08/07/13 19:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:45	08/07/13 19:51	1
Boron	0.89		0.10	0.050	mg/L		07/30/13 10:45	08/07/13 19:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:45	08/07/13 19:51	1
Chromium	0.060		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:51	1
Cobalt	0.011	J	0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 19:51	1
Iron	44		0.20	0.20	mg/L		07/30/13 10:45	08/07/13 19:51	1
Lead	0.029		0.0075	0.0050	mg/L		07/30/13 10:45	08/07/13 19:51	1
Manganese	0.20		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:51	1
Nickel	0.050		0.025	0.010	mg/L		07/30/13 10:45	08/07/13 19:51	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:45	08/07/13 19:51	1
Silver	<0.025		0.025	0.0050	mg/L		07/30/13 10:45	08/07/13 19:51	1
Zinc	0.51		0.10	0.020	mg/L		07/30/13 10:45	08/07/13 19:51	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		07/30/13 10:45	08/09/13 16:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		07/30/13 10:45	08/09/13 16:22	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000066	J	0.00020	0.000020	mg/L		07/30/13 15:45	07/31/13 11:26	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0090	mg/Kg	☆	07/30/13 17:45	07/31/13 10:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.83		0.200	0.200	SU			08/08/13 18:19	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - US 6/IL 7 - WO 022

TestAmerica Job ID: 500-59862-11

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.

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



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 Information Project Name: <u>B6/IL7 Will Cook Co</u> Project No.: <u>IDOT 2013-022</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 <u>KM, IT</u> Sampler:	Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-59862</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.																												
ANALYSES																												
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												
26	846D-149-B01	7/25/13	2:25	S	X	X					X	X	X	X		0'-1'												
27	846D-149-B02		2:30	S	X	X					X	X	X	X		0'-1'												
28	846D-149-B02 DUP		2:35	S	X	X					X	X	X	X		0'-1'												
29	846D-149-B03	+	2:40	S	X	X					X	X	X	X		0'-1'												
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Relinquished by: <u>Kim A. Lane</u></td> <td style="width: 25%;">Date/Time: <u>7/25/13</u></td> <td style="width: 25%;">Received by: <u>[Signature]</u></td> <td style="width: 25%;">Date/Time: <u>7/25/13 12:15</u></td> </tr> <tr> <td>Relinquished by: <u>[Signature]</u></td> <td>Date/Time: <u>7/25/13 17:00</u></td> <td>Received by: <u>[Signature]</u></td> <td>Date/Time: <u>7/26/13 06:00</u></td> </tr> <tr> <td>Relinquished by: _____</td> <td>Date/Time: _____</td> <td>Received by: _____</td> <td>Date/Time: _____</td> </tr> </table>																	Relinquished by: <u>Kim A. Lane</u>	Date/Time: <u>7/25/13</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/25/13 12:15</u>	Relinquished by: <u>[Signature]</u>	Date/Time: <u>7/25/13 17:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/26/13 06:00</u>	Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____
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