



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 104 (IL 59) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
39110-39285 N. IL 59; 24770-24825 N. Lakeview Dr.; 24873-24881 W. Ravine Dr.

City: Unincorporated State: IL Zip Code: 60046

County: Lake Township: Lake Villa

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

Latitude: 42.43116 Longitude: -88.11764
(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 104 (IL 59)

Latitude: 42.43116 Longitude: -88.11764

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 2143V-1-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE 2143V-1. SEE FIGURE 4 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]:

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID: 500-82432-1

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

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

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

Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Kurt T. Fischer

Printed Name:



Licensed Professional Engineer or Licensed Professional Geologist Signature:

11/5/14

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.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2143V-1

Residences

Sample ID	2143V-1-B01	2143V-1-B02						
Sample Depth (ft)	0-5	0-5						
Sample Date	8/14/2014	8/14/2014						
PID	0	0						
Sample pH	8.17	8.77						
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: 500-82432-1
Client Project/Site: IDOT - IL 59 - WO 089

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

Attn: Ms. Colleen Grey



Authorized for release by:
8/29/2014 3:43:26 PM

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

LINKS

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results through
TotalAccess

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 - IL 59 - WO 089

TestAmerica Job ID: 500-82432-1

Client Sample ID: 2143V-1-B01

Lab Sample ID: 500-82432-1

Date Collected: 08/14/14 15:10

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 93.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0073		0.0049	0.0021	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Carbon tetrachloride	<0.0049		0.0049	0.00088	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Chloroethane	<0.0049	*	0.0049	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Dibromochloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
1,1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Vinyl acetate	<0.0049		0.0049	0.00076	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	08/15/14 08:20	08/18/14 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	08/15/14 08:20	08/18/14 14:12	1
Dibromofluoromethane	102		75 - 120	08/15/14 08:20	08/18/14 14:12	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	08/15/14 08:20	08/18/14 14:12	1
Toluene-d8 (Surr)	99		75 - 122	08/15/14 08:20	08/18/14 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.076	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-1

Client Sample ID: 2143V-1-B01

Lab Sample ID: 500-82432-1

Date Collected: 08/14/14 15:10

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 93.3

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	0.041	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Nitrobenzene	<0.034		0.034	0.0086	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Naphthalene	<0.034		0.034	0.0053	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
2,4-Dichlorophenol	<0.34		0.34	0.082	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
4-Chloroaniline	<0.69		0.69	0.16	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
2,4,5-Trichlorophenol	<0.34		0.34	0.078	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Hexachlorocyclopentadiene	<0.69	*	0.69	0.20	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
2-Methylnaphthalene	<0.034		0.034	0.0063	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
2-Nitrophenol	<0.34		0.34	0.081	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
2,4-Dinitrophenol	<0.69	*	0.69	0.61	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Acenaphthene	<0.034		0.034	0.0062	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
4-Nitrophenol	<0.69		0.69	0.33	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Fluorene	<0.034		0.034	0.0048	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Hexachlorobenzene	<0.069		0.069	0.0080	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Pentachlorophenol	<0.69		0.69	0.55	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
4,6-Dinitro-2-methylphenol	<0.34	*	0.34	0.28	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Phenanthrene	<0.034		0.034	0.0048	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Anthracene	<0.034		0.034	0.0057	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Carbazole	<0.17		0.17	0.089	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Fluoranthene	0.013	J	0.034	0.0064	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Pyrene	<0.034		0.034	0.0068	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Butyl benzyl phthalate	<0.17		0.17	0.065	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Benzo[a]anthracene	<0.034		0.034	0.0046	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-1

Client Sample ID: 2143V-1-B01

Lab Sample ID: 500-82432-1

Date Collected: 08/14/14 15:10

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 93.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.034		0.034	0.0094	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Benzo[b]fluoranthene	<0.034		0.034	0.0074	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Benzo[a]pyrene	<0.034		0.034	0.0067	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.0089	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0066	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1
3 & 4 Methylphenol	<0.17		0.17	0.057	mg/Kg	☼	08/26/14 17:18	08/28/14 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		25 - 110	08/26/14 17:18	08/28/14 01:50	1
Phenol-d5	53		31 - 110	08/26/14 17:18	08/28/14 01:50	1
Nitrobenzene-d5	42		25 - 115	08/26/14 17:18	08/28/14 01:50	1
2-Fluorobiphenyl	43		25 - 119	08/26/14 17:18	08/28/14 01:50	1
2,4,6-Tribromophenol	31	X	35 - 137	08/26/14 17:18	08/28/14 01:50	1
Terphenyl-d14	56		36 - 134	08/26/14 17:18	08/28/14 01:50	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	☼	08/23/14 08:30	08/24/14 00:46	1
Arsenic	2.8		0.50	0.099	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Barium	6.7		0.50	0.053	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Beryllium	0.082	J	0.20	0.040	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Boron	2.3	J	2.5	0.50	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Cadmium	0.018	J	0.10	0.013	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Calcium	59000	B	50	14	mg/Kg	☼	08/23/14 08:30	08/26/14 09:47	5
Chromium	3.8		0.50	0.058	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Cobalt	2.0		0.25	0.050	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Copper	8.4		0.50	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Iron	5500		10	4.1	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Lead	3.7		0.25	0.074	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Magnesium	28000		5.0	1.0	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Manganese	230		0.50	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Nickel	4.8		0.50	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Potassium	300		25	1.5	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Selenium	<0.50	^	0.50	0.18	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Silver	<0.25		0.25	0.018	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Sodium	210		50	6.7	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Thallium	0.30	J	0.50	0.21	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Vanadium	7.4	B	0.25	0.037	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	1
Zinc	24		1.0	0.20	mg/Kg	☼	08/23/14 08:30	08/24/14 00:46	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		08/28/14 09:00	08/28/14 17:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/28/14 09:00	08/28/14 17:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-1

Client Sample ID: 2143V-1-B01

Lab Sample ID: 500-82432-1

Date Collected: 08/14/14 15:10

Matrix: Solid

Date Received: 08/15/14 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.061	J	0.50	0.050	mg/L		08/26/14 07:55	08/26/14 17:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 17:46	1
Boron	0.16	B	0.10	0.050	mg/L		08/26/14 07:55	08/26/14 17:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 17:46	1
Chromium	0.012	J	0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:46	1
Cobalt	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:46	1
Iron	11		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 17:46	1
Lead	0.0089		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 17:46	1
Manganese	0.13		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:46	1
Nickel	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:46	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 17:46	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:46	1
Zinc	0.084	J B	0.10	0.020	mg/L		08/26/14 07:55	08/26/14 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 07:55	08/26/14 17:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 09:01	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	<0.017		0.017	0.0065	mg/Kg	✱	08/25/14 14:00	08/26/14 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.17		0.200	0.200	SU			08/22/14 13:06	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-1

Client Sample ID: 2143V-1-B02

Lab Sample ID: 500-82432-2

Date Collected: 08/14/14 14:50

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 86.0

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	☼	08/15/14 08:20	08/18/14 14:35	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Chloroethane	<0.0041	*	0.0041	0.0011	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Chloromethane	<0.0041		0.0041	0.00087	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
1,1,1-Dichloroethane	<0.0041		0.0041	0.00067	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
1,2-Dichloropropane	<0.0041		0.0041	0.00063	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Vinyl chloride	<0.0041		0.0041	0.00087	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	08/15/14 08:20	08/18/14 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	08/15/14 08:20	08/18/14 14:35	1
Dibromofluoromethane	105		75 - 120	08/15/14 08:20	08/18/14 14:35	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	08/15/14 08:20	08/18/14 14:35	1
Toluene-d8 (Surr)	102		75 - 122	08/15/14 08:20	08/18/14 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-1

Client Sample ID: 2143V-1-B02

Lab Sample ID: 500-82432-2

Date Collected: 08/14/14 14:50

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 86.0

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	0.045	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
2,4-Dinitrophenol	<0.76	*	0.76	0.66	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
4,6-Dinitro-2-methylphenol	<0.37	*	0.37	0.30	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Phenanthrene	<0.037		0.037	0.0053	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-1

Client Sample ID: 2143V-1-B02

Lab Sample ID: 500-82432-2

Date Collected: 08/14/14 14:50

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 86.0

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	☼	08/24/14 20:45	08/26/14 00:11	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Bis(2-ethylhexyl) phthalate	0.37		0.19	0.069	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	08/24/14 20:45	08/26/14 00:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	38		25 - 110				08/24/14 20:45	08/26/14 00:11	1
Phenol-d5	36		31 - 110				08/24/14 20:45	08/26/14 00:11	1
Nitrobenzene-d5	37		25 - 115				08/24/14 20:45	08/26/14 00:11	1
2-Fluorobiphenyl	34		25 - 119				08/24/14 20:45	08/26/14 00:11	1
2,4,6-Tribromophenol	29	X	35 - 137				08/24/14 20:45	08/26/14 00:11	1
Terphenyl-d14	56		36 - 134				08/24/14 20:45	08/26/14 00:11	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	☼	08/23/14 08:30	08/24/14 01:33	1
Arsenic	5.6		0.56	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Barium	45		0.56	0.060	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Beryllium	0.44		0.22	0.045	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Boron	5.6		2.8	0.56	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Cadmium	0.080	J	0.11	0.014	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Calcium	78000	B	56	15	mg/Kg	☼	08/23/14 08:30	08/26/14 10:07	5
Chromium	15		0.56	0.065	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Cobalt	6.5		0.28	0.056	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Copper	18		0.56	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Iron	17000		11	4.6	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Lead	8.7		0.28	0.083	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Magnesium	30000		5.6	1.2	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Manganese	340		0.56	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Nickel	19		0.56	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Potassium	1800		28	1.7	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Selenium	<2.8		2.8	0.99	mg/Kg	☼	08/23/14 08:30	08/26/14 10:07	5
Silver	0.023	J B	0.28	0.020	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Sodium	720		56	7.5	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Thallium	0.60		0.56	0.24	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Vanadium	17	B	0.28	0.041	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	1
Zinc	39		1.1	0.23	mg/Kg	☼	08/23/14 08:30	08/24/14 01:33	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		08/28/14 09:00	08/28/14 17:37	1
Chromium	<0.025		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 17:37	1
Iron	<0.20		0.20	0.20	mg/L		08/28/14 09:00	08/28/14 17:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-1

Client Sample ID: 2143V-1-B02

Lab Sample ID: 500-82432-2

Date Collected: 08/14/14 14:50

Matrix: Solid

Date Received: 08/15/14 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		08/28/14 09:00	08/28/14 17:37	1
Manganese	0.29		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 17:37	1
Nickel	<0.025		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 17:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58		0.50	0.050	mg/L		08/26/14 07:55	08/26/14 17:50	1
Beryllium	0.0073		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 17:50	1
Boron	0.46	B	0.10	0.050	mg/L		08/26/14 07:55	08/26/14 17:50	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 17:50	1
Chromium	0.16		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:50	1
Cobalt	0.029		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:50	1
Iron	140		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 17:50	1
Lead	0.10		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 17:50	1
Manganese	0.55		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:50	1
Nickel	0.14		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:50	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 17:50	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:50	1
Zinc	0.44	B	0.10	0.020	mg/L		08/26/14 07:55	08/26/14 17:50	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		08/28/14 09:00	08/28/14 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 07:55	08/26/14 17:44	1
Thallium	0.0021		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00021		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 09:03	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	0.0072	mg/Kg	☼	08/25/14 14:00	08/26/14 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.77		0.200	0.200	SU			08/22/14 13:12	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

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
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.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery exceeds the control limits
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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Cont 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: 1259 Antioch Lake Ca Project No.: IDOT 2013-089 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: CN/CM	COC No.: 1 of 1 Lab Job No.: 500-02432 Sample Temp: (2.5) (2.7)
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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.

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																	
1	2143V-1-B01	8/14	3:10	S	X	X					X	X	X	X		0-5																	
2	2143V-1-B02		2:50	S	X	X					X	X	X	X																			
3	2143V-1-B03		2:35	S	X	X					X	X	X	X																			
4	2143V-1-B03 DUP		2:40	S	X	X					X	X	X	X																			
<table border="1"> <tr> <td>Matrix Key:</td> <td>W: Water</td> </tr> <tr> <td></td> <td>S: Soil</td> </tr> <tr> <td></td> <td>SL: Sludge</td> </tr> <tr> <td></td> <td>S: Sediment</td> </tr> <tr> <td></td> <td>L: Leachate</td> </tr> <tr> <td></td> <td>DW: Drinking Water</td> </tr> <tr> <td></td> <td>OL: Oil</td> </tr> <tr> <td></td> <td>O: Other</td> </tr> </table>																	Matrix Key:	W: Water		S: Soil		SL: Sludge		S: Sediment		L: Leachate		DW: Drinking Water		OL: Oil		O: Other	
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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 104 (IL 59) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
39171-39275 N. IL 59

City: Unincorporated State: IL Zip Code: 60046

County: Lake Township: Lake Villa

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

Latitude: 42.43203 Longitude: -88.11712
(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 104 (IL 59)Latitude: 42.43203 Longitude: -88.11712Uncontaminated 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 2143V-2-B01 WAS SAMPLED ADJACENT TO ISGS SITE 2143V-2. SEE FIGURE 4 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]:

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID: 500-82432-2

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

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

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

Company Name: IDOT Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217.785.4246

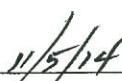
Kurt T. Fischer

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:




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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2143V-2

Residences

Sample ID	2143V-2-B01							
Sample Depth (ft)	0-5							
Sample Date	8/14/2014							
PID	0							
Sample pH	8.87							
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: 500-82432-2
Client Project/Site: IDOT - IL 59 - WO 089

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

Attn: Ms. Colleen Grey



Authorized for release by:
8/29/2014 3:44:31 PM

Richard Wright, Senior Project Manager
(708)534-5200
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 - IL 59 - WO 089

TestAmerica Job ID: 500-82432-2

Client Sample ID: 2143V-2-B01

Lab Sample ID: 500-82432-5

Date Collected: 08/14/14 14:30

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0054		0.0054	0.0023	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Benzene	<0.0054		0.0054	0.00074	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Bromodichloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Carbon disulfide	<0.0054		0.0054	0.00080	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Carbon tetrachloride	<0.0054		0.0054	0.00098	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Chlorobenzene	<0.0054		0.0054	0.00055	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Chloroethane	<0.0054	*	0.0054	0.0015	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00071	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Dibromochloromethane	<0.0054		0.0054	0.00094	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
1,1-Dichloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
1,1-Dichloroethene	<0.0054		0.0054	0.00087	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
1,2-Dichloropropane	<0.0054		0.0054	0.00082	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00071	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
2-Hexanone	<0.0054		0.0054	0.0016	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00089	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Styrene	<0.0054		0.0054	0.00071	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
1,1,1,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Tetrachloroethene	<0.0054		0.0054	0.00082	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Toluene	<0.0054		0.0054	0.00075	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00074	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00096	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00073	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Trichloroethene	<0.0054		0.0054	0.00089	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Vinyl acetate	<0.0054		0.0054	0.00085	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	08/15/14 08:20	08/18/14 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	08/15/14 08:20	08/18/14 15:43	1
Dibromofluoromethane	110		75 - 120	08/15/14 08:20	08/18/14 15:43	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	08/15/14 08:20	08/18/14 15:43	1
Toluene-d8 (Surr)	98		75 - 122	08/15/14 08:20	08/18/14 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-2

Client Sample ID: 2143V-2-B01

Lab Sample ID: 500-82432-5

Date Collected: 08/14/14 14:30

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
4,6-Dinitro-2-methylphenol	<0.39	*	0.39	0.32	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-2

Client Sample ID: 2143V-2-B01

Lab Sample ID: 500-82432-5

Date Collected: 08/14/14 14:30

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	08/24/14 20:45	08/26/14 01:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	37		25 - 110	08/24/14 20:45	08/26/14 01:17	1
Phenol-d5	41		31 - 110	08/24/14 20:45	08/26/14 01:17	1
Nitrobenzene-d5	32		25 - 115	08/24/14 20:45	08/26/14 01:17	1
2-Fluorobiphenyl	35		25 - 119	08/24/14 20:45	08/26/14 01:17	1
2,4,6-Tribromophenol	65		35 - 137	08/24/14 20:45	08/26/14 01:17	1
Terphenyl-d14	87		36 - 134	08/24/14 20:45	08/26/14 01:17	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	☼	08/23/14 08:30	08/24/14 01:53	1
Arsenic	4.9		0.58	0.12	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Barium	77		0.58	0.062	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Beryllium	0.63		0.23	0.047	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Boron	2.7 J		2.9	0.58	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Cadmium	<0.12		0.12	0.015	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Calcium	7800 B		12	3.2	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Chromium	17		0.58	0.068	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Cobalt	9.7		0.29	0.058	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Copper	22		0.58	0.12	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Iron	18000		12	4.8	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Lead	17		0.29	0.087	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Magnesium	4300		5.8	1.2	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Manganese	540		0.58	0.12	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Nickel	21		0.58	0.12	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Potassium	1100		29	1.8	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Selenium	<0.58 ^		0.58	0.21	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Silver	0.022 J B		0.29	0.021	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Sodium	690		58	7.8	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Thallium	1.1		0.58	0.25	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Vanadium	22 B		0.29	0.043	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	1
Zinc	52		1.2	0.24	mg/Kg	☼	08/23/14 08:30	08/24/14 01:53	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		08/28/14 09:00	08/28/14 18:00	1
Chromium	<0.025		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 18:00	1
Iron	0.24		0.20	0.20	mg/L		08/28/14 09:00	08/28/14 18:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-2

Client Sample ID: 2143V-2-B01

Lab Sample ID: 500-82432-5

Date Collected: 08/14/14 14:30

Matrix: Solid

Date Received: 08/15/14 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		08/28/14 09:00	08/28/14 18:00	1
Manganese	0.22		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 18:00	1
Nickel	<0.025		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J	0.50	0.050	mg/L		08/26/14 07:55	08/26/14 18:02	1
Beryllium	0.0049		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 18:02	1
Boron	0.17		0.10	0.050	mg/L		08/26/14 07:55	08/26/14 18:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 18:02	1
Chromium	0.13		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:02	1
Cobalt	0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:02	1
Iron	120		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 18:02	1
Lead	0.071	^	0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 18:02	1
Manganese	0.51		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:02	1
Nickel	0.11		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:02	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 18:02	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:02	1
Zinc	0.33		0.10	0.020	mg/L		08/26/14 07:55	08/26/14 18:02	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		08/28/14 09:00	08/28/14 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 07:55	08/26/14 17:56	1
Thallium	0.0022		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 17:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 09:09	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	0.044		0.021	0.0081	mg/Kg	☼	08/25/14 14:00	08/26/14 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.87		0.200	0.200	SU			08/22/14 13:20	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

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

Metals

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

Glossary

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



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>IL59 Ontioch, Lake Co.</u> Project No.: <u>IDOT 2013-089</u> TAT: 10 5 BD <input checked="" type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>CN/CM</u>	COC No.: _____ of _____ Lab Job No.: <u>500-82432</u> 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.

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
5	2143V-2-B01	8/14	2:30	S	X	X					X	X	X	X		D-5

Relinquished by: [Signature] Date/Time: 8/14/14 3:30 Received by: RAE Date/Time: 8/14/14 1530
 Relinquished by: [Signature] Date/Time: 8/14/14 1830 Received by: [Signature] Date/Time: 8/15/14 0700
 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 104 (IL 59) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
39075 N. IL 59

City: Unincorporated State: IL Zip Code: 60046

County: Lake Township: Lake Villa

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

Latitude: 42.43093 Longitude: -88.11745
(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 104 (IL 59)

Latitude: 42.43093 Longitude: -88.11745

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 2143V-3-B01 WAS SAMPLED ADJACENT TO ISGS SITE 2143V-3. SEE FIGURE 4 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]:

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID: 500-82432-3

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

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

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

Company Name: IDOT-Bureau of Design and Environment

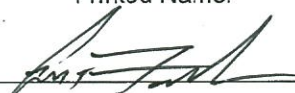
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Kurt T. Fischer

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/5/14
Date:



P.E. or 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.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2143V-3

Petite Lake Station

Sample ID	2143V-3-B01							
Sample Depth (ft)	0-2.5							
Sample Date	8/14/2014							
PID	0							
Sample pH	8.47							
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: 500-82432-3
Client Project/Site: IDOT - IL 59 - WO 089

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

Attn: Ms. Colleen Grey



Authorized for release by:
8/29/2014 3:45:32 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.

1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-3

Client Sample ID: 2143V-3-B01

Lab Sample ID: 500-82432-6

Date Collected: 08/14/14 13:25

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.010		0.0046	0.0020	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Benzene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Carbon tetrachloride	<0.0046		0.0046	0.00085	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Chloromethane	<0.0046		0.0046	0.00098	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Dibromochloromethane	<0.0046		0.0046	0.00081	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
1,1,1-Dichloroethane	<0.0046		0.0046	0.00075	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Ethylbenzene	<0.0046		0.0046	0.00094	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00077	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
1,1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
1,1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Trichloroethene	<0.0046		0.0046	0.00077	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Vinyl chloride	<0.0046		0.0046	0.00098	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	08/15/14 08:20	08/19/14 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	08/15/14 08:20	08/19/14 13:02	1
Dibromofluoromethane	93		75 - 120	08/15/14 08:20	08/19/14 13:02	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	08/15/14 08:20	08/19/14 13:02	1
Toluene-d8 (Surr)	100		75 - 122	08/15/14 08:20	08/19/14 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.079	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-3

Client Sample ID: 2143V-3-B01

Lab Sample ID: 500-82432-6

Date Collected: 08/14/14 13:25

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 90.1

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	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
2,4-Dichlorophenol	<0.35		0.35	0.085	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Hexachlorocyclopentadiene	<0.72		0.72	0.20	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
2-Methylnaphthalene	<0.035		0.035	0.0065	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
2,4-Dinitrophenol	<0.72	*	0.72	0.63	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Hexachlorobenzene	<0.072		0.072	0.0082	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
4,6-Dinitro-2-methylphenol	<0.35	*	0.35	0.29	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Phenanthrene	<0.035		0.035	0.0050	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Fluoranthene	<0.035		0.035	0.0066	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Pyrene	<0.035		0.035	0.0071	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Benzo[a]anthracene	<0.035		0.035	0.0048	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-3

Client Sample ID: 2143V-3-B01

Lab Sample ID: 500-82432-6

Date Collected: 08/14/14 13:25

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0097	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Benzo[b]fluoranthene	<0.035		0.035	0.0077	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Benzo[a]pyrene	<0.035		0.035	0.0069	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0092	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	08/24/14 20:45	08/26/14 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	61		25 - 110	08/24/14 20:45	08/26/14 01:38	1
Phenol-d5	58		31 - 110	08/24/14 20:45	08/26/14 01:38	1
Nitrobenzene-d5	51		25 - 115	08/24/14 20:45	08/26/14 01:38	1
2-Fluorobiphenyl	46		25 - 119	08/24/14 20:45	08/26/14 01:38	1
2,4,6-Tribromophenol	70		35 - 137	08/24/14 20:45	08/26/14 01:38	1
Terphenyl-d14	94		36 - 134	08/24/14 20:45	08/26/14 01:38	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	☼	08/23/14 08:30	08/24/14 01:59	1
Arsenic	2.6		0.51	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Barium	8.1		0.51	0.054	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Beryllium	0.11	J	0.20	0.041	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Boron	3.0		2.5	0.51	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Cadmium	0.069	J	0.10	0.013	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Calcium	72000	B	51	14	mg/Kg	☼	08/23/14 08:30	08/26/14 10:28	5
Chromium	3.7		0.51	0.059	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Cobalt	1.8		0.25	0.051	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Copper	7.9		0.51	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Iron	5100		10	4.2	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Lead	3.1		0.25	0.076	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Magnesium	40000		5.1	1.0	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Manganese	210		0.51	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Nickel	4.4		0.51	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Potassium	370		25	1.5	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Selenium	<0.51	[^]	0.51	0.18	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Silver	<0.25		0.25	0.018	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Sodium	270		51	6.8	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Thallium	0.27	J	0.51	0.21	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Vanadium	8.4	B	0.25	0.038	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	1
Zinc	20		1.0	0.21	mg/Kg	☼	08/23/14 08:30	08/24/14 01:59	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		08/28/14 09:00	08/28/14 18:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/28/14 09:00	08/28/14 18:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-3

Client Sample ID: 2143V-3-B01

Lab Sample ID: 500-82432-6

Date Collected: 08/14/14 13:25

Matrix: Solid

Date Received: 08/15/14 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.063	J	0.50	0.050	mg/L		08/26/14 07:55	08/26/14 18:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 18:06	1
Boron	0.071	J B	0.10	0.050	mg/L		08/26/14 07:55	08/26/14 18:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 18:06	1
Chromium	0.017	J	0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:06	1
Cobalt	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:06	1
Iron	16		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 18:06	1
Lead	0.015		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 18:06	1
Manganese	0.14		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:06	1
Nickel	0.014	J	0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:06	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 18:06	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:06	1
Zinc	0.16	B	0.10	0.020	mg/L		08/26/14 07:55	08/26/14 18:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 07:55	08/26/14 18:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 09:11	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	<0.018		0.018	0.0072	mg/Kg	✱	08/25/14 14:00	08/26/14 10:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.47		0.200	0.200	SU			08/22/14 13:25	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-3

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.
^	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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



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 104 (IL 59) Office Phone Number, if available: _____

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

24774 W. Petite Lake Road

City: Unincorporated State: IL Zip Code: 60046

County: Lake Township: Lake Villa

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

Latitude: 42.43000 Longitude: -88.11738
(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 104 (IL 59)

Latitude: 42.43000 Longitude: -88.11738

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 2143V-4-B02, -B03, -B05, -B06, -B07, -B09, -B10, -B11 AND -B12 WERE SAMPLED ADJACENT TO ISGS SITE 2143V-4. SEE FIGURES 3 THROUGH 5 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]:

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID: 500-82432-4

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

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

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

Company Name: IDOT Bureau of Design and Environment

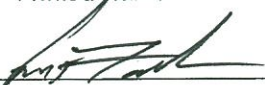
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Kurt T. Fischer

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/5/14

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
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
Pesticides (mg/kg)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-BHC
Dieldrin
Endosulfan
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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.

ISCS Site 2143V-4

Family Christmas Tree Farm

Sample ID	2143V-4-B02	2143V-4-B03	2143V-4-B05	2143V-4-B06						
Sample Depth (ft)	0-8	0-8	0-8	0-8						
Sample Date	8/14/2014	8/14/2014	8/14/2014	8/14/2014						
PID	0	0	0	0						
Sample pH	7.46	8.32	7.96	8.06						
Matrix	Soil	Soil	Soil	Soil						
Inorganic Compounds, Total (mg/kg)										
Arsenic	4.4	9.2	9	8.5	11.3	NA	11.3	NA	13	NA

Sample ID	2143V-4-B07	2143V-4-B09	2143V-4-B10	2143V-4-B11	2143V-4-B12					
Sample Depth (ft)	0-8	0-8	0-4	0-8	0-8					
Sample Date	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014					
PID	0	0	0	0	0					
Sample pH	8.37	8.48	8.45	8.7	8.5					
Matrix	Soil	Soil	Soil	Soil	Soil					
Inorganic Compounds, Total (mg/kg)										
Arsenic	6.1	8	6.2	4.9	12	1.3	11.3	NA	11.3	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: 500-82432-4
Client Project/Site: IDOT - IL 59 - WO 089

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

Attn: Ms. Colleen Grey



Authorized for release by:
8/29/2014 3:46:11 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 - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B02

Lab Sample ID: 500-82432-8

Date Collected: 08/14/14 09:25

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.0045	0.0019	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Chloroethane	<0.0045	*	0.0045	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
1,1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
1,1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Toluene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	08/15/14 08:20	08/18/14 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	08/15/14 08:20	08/18/14 16:52	1
Dibromofluoromethane	101		75 - 120	08/15/14 08:20	08/18/14 16:52	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	08/15/14 08:20	08/18/14 16:52	1
Toluene-d8 (Surr)	98		75 - 122	08/15/14 08:20	08/18/14 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.092	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B02

Lab Sample ID: 500-82432-8

Date Collected: 08/14/14 09:25

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 79.1

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	0.050	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
2,4-Dinitrophenol	<0.84	*	0.84	0.73	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
4,6-Dinitro-2-methylphenol	<0.41	*	0.41	0.33	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Pyrene	<0.041		0.041	0.0083	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B02

Lab Sample ID: 500-82432-8

Date Collected: 08/14/14 09:25

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	08/24/14 20:45	08/26/14 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	35		25 - 110	08/24/14 20:45	08/26/14 02:22	1
Phenol-d5	40		31 - 110	08/24/14 20:45	08/26/14 02:22	1
Nitrobenzene-d5	31		25 - 115	08/24/14 20:45	08/26/14 02:22	1
2-Fluorobiphenyl	37		25 - 119	08/24/14 20:45	08/26/14 02:22	1
2,4,6-Tribromophenol	67		35 - 137	08/24/14 20:45	08/26/14 02:22	1
Terphenyl-d14	89		36 - 134	08/24/14 20:45	08/26/14 02:22	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.043		0.043	0.017	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
alpha-BHC	<0.043	*	0.043	0.011	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
alpha-Chlordane	<0.043	*	0.043	0.021	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
beta-BHC	<0.043	*	0.043	0.013	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
4,4'-DDD	<0.043		0.043	0.0083	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
4,4'-DDE	<0.043		0.043	0.0069	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
4,4'-DDT	<0.043	*	0.043	0.022	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
delta-BHC	<0.043	*	0.043	0.013	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
Dieldrin	<0.043		0.043	0.0057	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
Endosulfan I	<0.043		0.043	0.018	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
Endosulfan II	<0.043		0.043	0.0068	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
Endosulfan sulfate	<0.043		0.043	0.0076	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
Endrin	<0.043		0.043	0.0058	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
Endrin aldehyde	<0.043		0.043	0.0070	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
Endrin ketone	<0.043		0.043	0.0095	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
gamma-BHC (Lindane)	<0.043		0.043	0.0091	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
gamma-Chlordane	<0.043		0.043	0.011	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
Heptachlor	<0.043		0.043	0.018	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
Heptachlor epoxide	<0.043	*	0.043	0.015	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
Methoxychlor	<0.21	*	0.21	0.0081	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20
Toxaphene	<0.42		0.42	0.18	mg/Kg	☼	08/25/14 13:13	08/26/14 16:27	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	D	56 - 128	08/25/14 13:13	08/26/14 16:27	20
Tetrachloro-m-xylene	0	D	45 - 112	08/25/14 13:13	08/26/14 16:27	20

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B02

Lab Sample ID: 500-82432-8

Date Collected: 08/14/14 09:25

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 79.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.51	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Arsenic	4.4		0.63	0.13	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Barium	81		0.63	0.068	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Beryllium	0.48		0.25	0.051	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Boron	2.8	J	3.2	0.63	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Cadmium	<0.13		0.13	0.016	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Calcium	8100	B	13	3.4	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Chromium	13		0.63	0.073	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Cobalt	9.1		0.32	0.063	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Copper	15		0.63	0.13	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Iron	15000		13	5.2	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Lead	13		0.32	0.094	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Magnesium	5000		6.3	1.3	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Manganese	350		0.63	0.13	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Nickel	15		0.63	0.13	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Potassium	960		32	1.9	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Selenium	<0.63	[^]	0.63	0.22	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Sodium	2800		63	8.5	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Thallium	0.64		0.63	0.27	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Vanadium	19	B	0.32	0.047	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1
Zinc	41		1.3	0.26	mg/Kg	☼	08/23/14 08:30	08/24/14 02:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.34		0.20	0.20	mg/L		08/28/14 09:00	08/28/14 18:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/28/14 09:00	08/28/14 18:10	1
Manganese	1.5		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 18:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.56		0.50	0.050	mg/L		08/26/14 07:55	08/26/14 18:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 18:34	1
Boron	1.1	B	0.10	0.050	mg/L		08/26/14 07:55	08/26/14 18:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 18:34	1
Chromium	0.084		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:34	1
Cobalt	0.040		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:34	1
Iron	90		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 18:34	1
Lead	0.073		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 18:34	1
Manganese	1.1		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:34	1
Nickel	0.098		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:34	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 18:34	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:34	1
Zinc	0.44	B	0.10	0.020	mg/L		08/26/14 07:55	08/26/14 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 07:55	08/26/14 18:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 18:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B02

Lab Sample ID: 500-82432-8

Date Collected: 08/14/14 09:25

Matrix: Solid

Date Received: 08/15/14 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 09:15	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		0.021	0.0082	mg/Kg	☼	08/25/14 14:00	08/26/14 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.46		0.200	0.200	SU			08/22/14 13:36	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B03

Lab Sample ID: 500-82432-9

Date Collected: 08/14/14 09:40

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0059		0.0045	0.0019	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Chloroethane	<0.0045	*	0.0045	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00058	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
1,1-Dichloroethane	<0.0045		0.0045	0.00070	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00058	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Styrene	<0.0045		0.0045	0.00058	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Toluene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	08/15/14 08:20	08/18/14 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	08/15/14 08:20	08/18/14 17:14	1
Dibromofluoromethane	104		75 - 120	08/15/14 08:20	08/18/14 17:14	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	08/15/14 08:20	08/18/14 17:14	1
Toluene-d8 (Surr)	98		75 - 122	08/15/14 08:20	08/18/14 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B03

Lab Sample ID: 500-82432-9

Date Collected: 08/14/14 09:40

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 79.6

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	0.050	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
2-Methylnaphthalene	<0.041		0.041	0.0077	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
2,4-Dinitrophenol	<0.84	*	0.84	0.73	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
4,6-Dinitro-2-methylphenol	<0.41	*	0.41	0.33	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Anthracene	<0.041		0.041	0.0070	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Pyrene	<0.041		0.041	0.0083	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B03

Lab Sample ID: 500-82432-9

Date Collected: 08/14/14 09:40

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Bis(2-ethylhexyl) phthalate	0.10	J	0.21	0.076	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Benzo[a]pyrene	<0.041		0.041	0.0081	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	08/24/14 20:45	08/26/14 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	45		25 - 110	08/24/14 20:45	08/26/14 02:44	1
Phenol-d5	46		31 - 110	08/24/14 20:45	08/26/14 02:44	1
Nitrobenzene-d5	39		25 - 115	08/24/14 20:45	08/26/14 02:44	1
2-Fluorobiphenyl	35		25 - 119	08/24/14 20:45	08/26/14 02:44	1
2,4,6-Tribromophenol	71		35 - 137	08/24/14 20:45	08/26/14 02:44	1
Terphenyl-d14	100		36 - 134	08/24/14 20:45	08/26/14 02:44	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.011		0.011	0.0043	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
alpha-BHC	<0.011	*	0.011	0.0027	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
alpha-Chlordane	<0.011	*	0.011	0.0053	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
beta-BHC	<0.011	*	0.011	0.0032	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
4,4'-DDD	<0.011		0.011	0.0021	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
4,4'-DDE	<0.011		0.011	0.0017	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
4,4'-DDT	<0.011	*	0.011	0.0055	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
delta-BHC	<0.011	*	0.011	0.0033	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
Dieldrin	<0.011		0.011	0.0014	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
Endosulfan I	<0.011		0.011	0.0046	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
Endosulfan II	<0.011		0.011	0.0017	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
Endosulfan sulfate	<0.011		0.011	0.0019	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
Endrin	<0.011		0.011	0.0014	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
Endrin aldehyde	<0.011		0.011	0.0018	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
Endrin ketone	<0.011		0.011	0.0024	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
gamma-BHC (Lindane)	<0.011		0.011	0.0023	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
gamma-Chlordane	<0.011		0.011	0.0027	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
Heptachlor	<0.011		0.011	0.0044	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
Heptachlor epoxide	<0.011	*	0.011	0.0037	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
Methoxychlor	<0.052	*	0.052	0.0020	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5
Toxaphene	<0.10		0.10	0.044	mg/Kg	☼	08/25/14 13:13	08/26/14 16:47	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		56 - 128	08/25/14 13:13	08/26/14 16:47	5
Tetrachloro-m-xylene	99		45 - 112	08/25/14 13:13	08/26/14 16:47	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B03

Lab Sample ID: 500-82432-9

Date Collected: 08/14/14 09:40

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 79.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Arsenic	9.2		0.61	0.12	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Barium	35		0.61	0.065	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Beryllium	0.36		0.24	0.049	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Boron	3.8		3.0	0.61	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Cadmium	0.27		0.12	0.015	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Calcium	82000	B	61	17	mg/Kg	☼	08/23/14 08:30	08/26/14 10:37	5
Chromium	12		0.61	0.071	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Cobalt	8.7		0.30	0.061	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Copper	28		0.61	0.12	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Iron	21000		12	5.0	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Lead	11		0.30	0.091	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Magnesium	44000		6.1	1.3	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Manganese	620		0.61	0.12	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Nickel	22		0.61	0.12	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Potassium	1200		30	1.8	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Selenium	<3.0		3.0	1.1	mg/Kg	☼	08/23/14 08:30	08/26/14 10:37	5
Silver	0.037	J B	0.30	0.022	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Sodium	1400		61	8.2	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Thallium	0.97		0.61	0.26	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Vanadium	16	B	0.30	0.045	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	1
Zinc	68		1.2	0.25	mg/Kg	☼	08/23/14 08:30	08/24/14 02:19	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		08/28/14 09:00	08/28/14 18:15	1
Chromium	<0.025		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 18:15	1
Iron	0.21		0.20	0.20	mg/L		08/28/14 09:00	08/28/14 18:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/28/14 09:00	08/28/14 18:15	1
Manganese	0.74		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 18:15	1
Nickel	<0.025		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 18:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.8		0.50	0.050	mg/L		08/26/14 07:55	08/26/14 18:38	1
Beryllium	0.017		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 18:38	1
Boron	0.97	B	0.10	0.050	mg/L		08/26/14 07:55	08/26/14 18:38	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 18:38	1
Chromium	0.33		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:38	1
Cobalt	0.064		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:38	1
Iron	350		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 18:38	1
Lead	0.17		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 18:38	1
Manganese	1.2		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:38	1
Nickel	0.26		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:38	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 18:38	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:38	1
Zinc	0.87	B	0.10	0.020	mg/L		08/26/14 07:55	08/26/14 18:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B03

Lab Sample ID: 500-82432-9

Date Collected: 08/14/14 09:40

Matrix: Solid

Date Received: 08/15/14 07:00

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		08/28/14 09:00	08/28/14 17:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 07:55	08/26/14 18:33	1
Thallium	0.0058		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 18:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00040		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 09:17	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	0.015	J	0.021	0.0080	mg/Kg	☼	08/25/14 14:00	08/26/14 10:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU			08/22/14 13:41	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B05

Lab Sample ID: 500-82432-11

Date Collected: 08/14/14 10:10

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Chloroethane	<0.0043	*	0.0043	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
1,1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	08/15/14 08:20	08/18/14 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	08/15/14 08:20	08/18/14 18:00	1
Dibromofluoromethane	110		75 - 120	08/15/14 08:20	08/18/14 18:00	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	08/15/14 08:20	08/18/14 18:00	1
Toluene-d8 (Surr)	98		75 - 122	08/15/14 08:20	08/18/14 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B05

Lab Sample ID: 500-82432-11

Date Collected: 08/14/14 10:10

Matrix: Solid

Date Received: 08/15/14 07:00

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	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
2,4-Dinitrophenol	<0.75	*	0.75	0.65	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
4,6-Dinitro-2-methylphenol	<0.37	*	0.37	0.30	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Fluoranthene	0.0083	J	0.037	0.0069	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Pyrene	0.0095	J	0.037	0.0074	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B05

Lab Sample ID: 500-82432-11

Date Collected: 08/14/14 10:10

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	08/24/14 20:45	08/26/14 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	08/24/14 20:45	08/26/14 03:27	1
Phenol-d5	53		31 - 110	08/24/14 20:45	08/26/14 03:27	1
Nitrobenzene-d5	44		25 - 115	08/24/14 20:45	08/26/14 03:27	1
2-Fluorobiphenyl	46		25 - 119	08/24/14 20:45	08/26/14 03:27	1
2,4,6-Tribromophenol	52		35 - 137	08/24/14 20:45	08/26/14 03:27	1
Terphenyl-d14	79		36 - 134	08/24/14 20:45	08/26/14 03:27	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.019		0.019	0.0077	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
alpha-BHC	<0.019	*	0.019	0.0047	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
alpha-Chlordane	<0.019	*	0.019	0.0094	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
beta-BHC	<0.019	*	0.019	0.0058	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
4,4'-DDD	<0.019		0.019	0.0037	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
4,4'-DDE	<0.019		0.019	0.0031	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
4,4'-DDT	<0.019	*	0.019	0.0098	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
delta-BHC	<0.019	*	0.019	0.0058	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
Dieldrin	<0.019		0.019	0.0025	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
Endosulfan I	<0.019		0.019	0.0081	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
Endosulfan II	<0.019		0.019	0.0030	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
Endosulfan sulfate	<0.019		0.019	0.0034	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
Endrin	<0.019		0.019	0.0026	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
Endrin aldehyde	<0.019		0.019	0.0031	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
Endrin ketone	<0.019		0.019	0.0042	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
gamma-BHC (Lindane)	<0.019		0.019	0.0040	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
gamma-Chlordane	<0.019		0.019	0.0049	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
Heptachlor	<0.019		0.019	0.0078	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
Heptachlor epoxide	<0.019	*	0.019	0.0066	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
Methoxychlor	<0.092	*	0.092	0.0036	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10
Toxaphene	<0.19		0.19	0.078	mg/Kg	☼	08/25/14 13:13	08/26/14 17:45	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	114		56 - 128	08/25/14 13:13	08/26/14 17:45	10
Tetrachloro-m-xylene	97		45 - 112	08/25/14 13:13	08/26/14 17:45	10

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B05

Lab Sample ID: 500-82432-11

Date Collected: 08/14/14 10:10

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 86.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Arsenic	9.0		0.56	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Barium	19		0.56	0.060	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Beryllium	0.21	J	0.22	0.045	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Boron	3.1		2.8	0.56	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Cadmium	0.25		0.11	0.014	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Calcium	66000	B	56	15	mg/Kg	☼	08/23/14 08:30	08/26/14 10:46	5
Chromium	7.7		0.56	0.065	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Cobalt	6.4		0.28	0.056	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Copper	22		0.56	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Iron	18000		11	4.6	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Lead	16		0.28	0.084	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Magnesium	34000		5.6	1.2	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Manganese	540		0.56	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Nickel	16		0.56	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Potassium	660		28	1.7	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Selenium	<2.8		2.8	1.0	mg/Kg	☼	08/23/14 08:30	08/26/14 10:46	5
Silver	0.038	J B	0.28	0.020	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Sodium	520		56	7.5	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Thallium	1.1		0.56	0.24	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Vanadium	11	B	0.28	0.041	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	1
Zinc	62		1.1	0.23	mg/Kg	☼	08/23/14 08:30	08/24/14 02:47	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		08/28/14 09:00	08/28/14 18:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.14	J	0.50	0.050	mg/L		08/26/14 07:55	08/26/14 18:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 18:47	1
Boron	0.38	B	0.10	0.050	mg/L		08/26/14 07:55	08/26/14 18:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 18:47	1
Chromium	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:47	1
Cobalt	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:47	1
Iron	6.6		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 18:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 18:47	1
Manganese	0.077		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:47	1
Nickel	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:47	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 18:47	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:47	1
Zinc	0.10	B	0.10	0.020	mg/L		08/26/14 07:55	08/26/14 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 07:55	08/26/14 18:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 18:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B05

Lab Sample ID: 500-82432-11

Date Collected: 08/14/14 10:10

Matrix: Solid

Date Received: 08/15/14 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 09:25	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	0.0069	mg/Kg	*	08/25/14 14:00	08/26/14 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.96		0.200	0.200	SU			08/22/14 13:52	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B06

Lab Sample ID: 500-82432-12

Date Collected: 08/14/14 10:30

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 90.0

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	☼	08/15/14 08:20	08/18/14 18:23	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Chloroethane	<0.0046	*	0.0046	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	08/15/14 08:20	08/18/14 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	08/15/14 08:20	08/18/14 18:23	1
Dibromofluoromethane	104		75 - 120	08/15/14 08:20	08/18/14 18:23	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	08/15/14 08:20	08/18/14 18:23	1
Toluene-d8 (Surr)	97		75 - 122	08/15/14 08:20	08/18/14 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B06

Lab Sample ID: 500-82432-12

Date Collected: 08/14/14 10:30

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 90.0

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	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
2,4-Dinitrophenol	<0.74	*	0.74	0.64	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
4,6-Dinitro-2-methylphenol	<0.36	*	0.36	0.29	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Carbazole	<0.18		0.18	0.094	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B06

Lab Sample ID: 500-82432-12

Date Collected: 08/14/14 10:30

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.010	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0095	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0071	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	08/24/14 20:45	08/26/14 03:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		25 - 110	08/24/14 20:45	08/26/14 03:49	1
Phenol-d5	54		31 - 110	08/24/14 20:45	08/26/14 03:49	1
Nitrobenzene-d5	51		25 - 115	08/24/14 20:45	08/26/14 03:49	1
2-Fluorobiphenyl	47		25 - 119	08/24/14 20:45	08/26/14 03:49	1
2,4,6-Tribromophenol	40		35 - 137	08/24/14 20:45	08/26/14 03:49	1
Terphenyl-d14	88		36 - 134	08/24/14 20:45	08/26/14 03:49	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0093		0.0093	0.0038	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
alpha-BHC	<0.0093	*	0.0093	0.0023	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
alpha-Chlordane	<0.0093	*	0.0093	0.0046	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
beta-BHC	<0.0093	*	0.0093	0.0028	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
4,4'-DDD	<0.0093		0.0093	0.0018	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
4,4'-DDE	<0.0093		0.0093	0.0015	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
4,4'-DDT	<0.0093	*	0.0093	0.0048	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
delta-BHC	<0.0093	*	0.0093	0.0029	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
Dieldrin	<0.0093		0.0093	0.0013	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
Endosulfan I	<0.0093		0.0093	0.0040	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
Endosulfan II	<0.0093		0.0093	0.0015	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
Endosulfan sulfate	<0.0093		0.0093	0.0017	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
Endrin	<0.0093		0.0093	0.0013	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
Endrin aldehyde	<0.0093		0.0093	0.0015	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
Endrin ketone	<0.0093		0.0093	0.0021	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
gamma-BHC (Lindane)	<0.0093		0.0093	0.0020	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
gamma-Chlordane	<0.0093		0.0093	0.0024	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
Heptachlor	<0.0093		0.0093	0.0038	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
Heptachlor epoxide	<0.0093	*	0.0093	0.0033	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
Methoxychlor	<0.046	*	0.046	0.0018	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5
Toxaphene	<0.092		0.092	0.039	mg/Kg	☼	08/25/14 13:13	08/26/14 18:05	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	97		56 - 128	08/25/14 13:13	08/26/14 18:05	5
Tetrachloro-m-xylene	93		45 - 112	08/25/14 13:13	08/26/14 18:05	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B06

Lab Sample ID: 500-82432-12

Date Collected: 08/14/14 10:30

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 90.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.41	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Arsenic	8.5		0.52	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Barium	18		0.52	0.055	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Beryllium	0.25		0.21	0.041	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Boron	3.7		2.6	0.52	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Cadmium	0.20		0.10	0.013	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Calcium	76000	B	52	14	mg/Kg	☼	08/23/14 08:30	08/26/14 10:50	5
Chromium	8.0		0.52	0.060	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Cobalt	5.6		0.26	0.052	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Copper	23		0.52	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Iron	16000		10	4.2	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Lead	8.7		0.26	0.077	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Magnesium	39000		5.2	1.1	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Manganese	480		0.52	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Nickel	14		0.52	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Potassium	850		26	1.6	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Selenium	<2.6		2.6	0.91	mg/Kg	☼	08/23/14 08:30	08/26/14 10:50	5
Silver	0.037	J B	0.26	0.019	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Sodium	160		52	6.9	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Thallium	0.82		0.52	0.22	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Vanadium	12	B	0.26	0.038	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1
Zinc	55		1.0	0.21	mg/Kg	☼	08/23/14 08:30	08/24/14 02:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.14	J	0.50	0.050	mg/L		08/26/14 07:55	08/26/14 18:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 18:51	1
Boron	0.53	B	0.10	0.050	mg/L		08/26/14 07:55	08/26/14 18:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 18:51	1
Chromium	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:51	1
Cobalt	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:51	1
Iron	0.95		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 18:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 18:51	1
Manganese	0.031		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:51	1
Nickel	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:51	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 18:51	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:51	1
Zinc	0.096	J B	0.10	0.020	mg/L		08/26/14 07:55	08/26/14 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 07:55	08/26/14 18:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 09:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B06

Lab Sample ID: 500-82432-12

Date Collected: 08/14/14 10:30

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 90.0

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		0.016	0.0064	mg/Kg	☼	08/25/14 14:00	08/26/14 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.06		0.200	0.200	SU			08/22/14 13:58	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B07

Lab Sample ID: 500-82432-13

Date Collected: 08/14/14 11:25

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Chloroethane	<0.0045	*	0.0045	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Vinyl acetate	<0.0045		0.0045	0.00070	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	08/15/14 08:20	08/18/14 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	08/15/14 08:20	08/18/14 18:45	1
Dibromofluoromethane	107		75 - 120	08/15/14 08:20	08/18/14 18:45	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	08/15/14 08:20	08/18/14 18:45	1
Toluene-d8 (Surr)	99		75 - 122	08/15/14 08:20	08/18/14 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B07

Lab Sample ID: 500-82432-13

Date Collected: 08/14/14 11:25

Matrix: Solid

Date Received: 08/15/14 07:00

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	0.045	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
4,6-Dinitro-2-methylphenol	<0.38	*	0.38	0.30	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B07

Lab Sample ID: 500-82432-13

Date Collected: 08/14/14 11:25

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	08/24/14 20:45	08/26/14 04:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		25 - 110	08/24/14 20:45	08/26/14 04:10	1
Phenol-d5	50		31 - 110	08/24/14 20:45	08/26/14 04:10	1
Nitrobenzene-d5	50		25 - 115	08/24/14 20:45	08/26/14 04:10	1
2-Fluorobiphenyl	46		25 - 119	08/24/14 20:45	08/26/14 04:10	1
2,4,6-Tribromophenol	49		35 - 137	08/24/14 20:45	08/26/14 04:10	1
Terphenyl-d14	89		36 - 134	08/24/14 20:45	08/26/14 04:10	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0095		0.0095	0.0039	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
alpha-BHC	<0.0095	*	0.0095	0.0024	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
alpha-Chlordane	<0.0095	*	0.0095	0.0047	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
beta-BHC	<0.0095	*	0.0095	0.0029	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
4,4'-DDD	<0.0095		0.0095	0.0019	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
4,4'-DDE	<0.0095		0.0095	0.0015	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
4,4'-DDT	<0.0095	*	0.0095	0.0049	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
delta-BHC	<0.0095	*	0.0095	0.0029	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
Dieldrin	<0.0095		0.0095	0.0013	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
Endosulfan I	<0.0095		0.0095	0.0041	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
Endosulfan II	<0.0095		0.0095	0.0015	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
Endosulfan sulfate	<0.0095		0.0095	0.0017	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
Endrin	<0.0095		0.0095	0.0013	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
Endrin aldehyde	<0.0095		0.0095	0.0016	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
Endrin ketone	<0.0095		0.0095	0.0021	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
gamma-BHC (Lindane)	<0.0095		0.0095	0.0020	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
gamma-Chlordane	<0.0095		0.0095	0.0024	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
Heptachlor	<0.0095		0.0095	0.0039	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
Heptachlor epoxide	<0.0095	*	0.0095	0.0033	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
Methoxychlor	<0.046	*	0.046	0.0018	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5
Toxaphene	<0.093		0.093	0.039	mg/Kg	☼	08/25/14 13:13	08/26/14 18:25	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	99		56 - 128	08/25/14 13:13	08/26/14 18:25	5
Tetrachloro-m-xylene	97		45 - 112	08/25/14 13:13	08/26/14 18:25	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B07

Lab Sample ID: 500-82432-13

Date Collected: 08/14/14 11:25

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 84.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Arsenic	6.1		0.55	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Barium	32		0.55	0.059	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Beryllium	0.42		0.22	0.044	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Boron	4.0		2.8	0.55	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Cadmium	0.10	J	0.11	0.014	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Calcium	62000	B	55	15	mg/Kg	☼	08/23/14 08:30	08/26/14 10:54	5
Chromium	14		0.55	0.064	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Cobalt	7.6		0.28	0.055	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Copper	21		0.55	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Iron	17000		11	4.5	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Lead	8.9		0.28	0.082	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Magnesium	36000		5.5	1.1	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Manganese	460		0.55	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Nickel	21		0.55	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Potassium	1400		28	1.7	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Selenium	<2.8		2.8	0.98	mg/Kg	☼	08/23/14 08:30	08/26/14 10:54	5
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Sodium	400		55	7.4	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Thallium	0.80		0.55	0.23	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Vanadium	16	B	0.28	0.041	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	1
Zinc	43		1.1	0.22	mg/Kg	☼	08/23/14 08:30	08/24/14 03:00	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		08/28/14 09:00	08/28/14 18:30	1
Chromium	<0.025		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 18:30	1
Iron	0.26		0.20	0.20	mg/L		08/28/14 09:00	08/28/14 18:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/28/14 09:00	08/28/14 18:30	1
Manganese	0.20		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 18:30	1
Nickel	<0.025		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.31	J	0.50	0.050	mg/L		08/26/14 07:55	08/26/14 18:55	1
Beryllium	0.0050		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 18:55	1
Boron	0.14	B	0.10	0.050	mg/L		08/26/14 07:55	08/26/14 18:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 18:55	1
Chromium	0.11		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:55	1
Cobalt	0.029		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:55	1
Iron	140		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 18:55	1
Lead	0.076		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 18:55	1
Manganese	0.51		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:55	1
Nickel	0.13		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:55	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 18:55	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 18:55	1
Zinc	0.44	B	0.10	0.020	mg/L		08/26/14 07:55	08/26/14 18:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B07

Lab Sample ID: 500-82432-13

Date Collected: 08/14/14 11:25

Matrix: Solid

Date Received: 08/15/14 07:00

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		08/28/14 09:00	08/28/14 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 07:55	08/26/14 18:49	1
Thallium	0.0025		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 18:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 09:33	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	0.0070	mg/Kg	☼	08/25/14 14:00	08/26/14 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.37		0.200	0.200	SU			08/22/14 14:03	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B09

Lab Sample ID: 500-82432-15

Date Collected: 08/14/14 12:45

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Chloroethane	<0.0047	*	0.0047	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	08/15/14 08:20	08/18/14 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	08/15/14 08:20	08/18/14 19:31	1
Dibromofluoromethane	115		75 - 120	08/15/14 08:20	08/18/14 19:31	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	08/15/14 08:20	08/18/14 19:31	1
Toluene-d8 (Surr)	95		75 - 122	08/15/14 08:20	08/18/14 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B09

Lab Sample ID: 500-82432-15

Date Collected: 08/14/14 12:45

Matrix: Solid

Date Received: 08/15/14 07:00

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	<0.18		0.18	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
2,4-Dinitrophenol	<0.73	*	0.73	0.64	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
4,6-Dinitro-2-methylphenol	<0.36	*	0.36	0.29	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Carbazole	<0.18		0.18	0.094	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B09

Lab Sample ID: 500-82432-15

Date Collected: 08/14/14 12:45

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	08/24/14 20:45	08/26/14 04:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		25 - 110	08/24/14 20:45	08/26/14 04:54	1
Phenol-d5	51		31 - 110	08/24/14 20:45	08/26/14 04:54	1
Nitrobenzene-d5	52		25 - 115	08/24/14 20:45	08/26/14 04:54	1
2-Fluorobiphenyl	38		25 - 119	08/24/14 20:45	08/26/14 04:54	1
2,4,6-Tribromophenol	33	X	35 - 137	08/24/14 20:45	08/26/14 04:54	1
Terphenyl-d14	90		36 - 134	08/24/14 20:45	08/26/14 04:54	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0098		0.0098	0.0040	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
alpha-BHC	<0.0098	*	0.0098	0.0024	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
alpha-Chlordane	<0.0098	*	0.0098	0.0049	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
beta-BHC	<0.0098	*	0.0098	0.0030	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
4,4'-DDD	<0.0098		0.0098	0.0019	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
4,4'-DDE	<0.0098		0.0098	0.0016	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
4,4'-DDT	<0.0098	*	0.0098	0.0051	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
delta-BHC	<0.0098	*	0.0098	0.0030	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
Dieldrin	<0.0098		0.0098	0.0013	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
Endosulfan I	<0.0098		0.0098	0.0042	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
Endosulfan II	<0.0098		0.0098	0.0016	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
Endosulfan sulfate	<0.0098		0.0098	0.0018	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
Endrin	<0.0098		0.0098	0.0013	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
Endrin aldehyde	<0.0098		0.0098	0.0016	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
Endrin ketone	<0.0098		0.0098	0.0022	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
gamma-BHC (Lindane)	<0.0098		0.0098	0.0021	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
gamma-Chlordane	<0.0098		0.0098	0.0025	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
Heptachlor	<0.0098		0.0098	0.0040	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
Heptachlor epoxide	<0.0098	*	0.0098	0.0034	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
Methoxychlor	<0.048	*	0.048	0.0019	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5
Toxaphene	<0.096		0.096	0.041	mg/Kg	☼	08/25/14 13:13	08/26/14 19:24	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	97		56 - 128	08/25/14 13:13	08/26/14 19:24	5
Tetrachloro-m-xylene	66		45 - 112	08/25/14 13:13	08/26/14 19:24	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B09

Lab Sample ID: 500-82432-15

Date Collected: 08/14/14 12:45

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 85.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Arsenic	8.0		0.55	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Barium	48		0.55	0.058	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Beryllium	0.57		0.22	0.044	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Boron	3.0		2.7	0.55	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Cadmium	0.018	J	0.11	0.014	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Calcium	34000	B	11	3.0	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Chromium	17		0.55	0.063	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Cobalt	9.9		0.27	0.055	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Copper	24		0.55	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Iron	22000		11	4.5	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Lead	12		0.27	0.081	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Magnesium	23000		5.5	1.1	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Manganese	460		0.55	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Nickel	26		0.55	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Potassium	1500		27	1.6	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Selenium	0.63	J	1.1	0.39	mg/Kg	☼	08/23/14 08:30	08/26/14 11:11	2
Silver	0.021	J B	0.27	0.020	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Sodium	130		55	7.3	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Thallium	1.1		0.55	0.23	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Vanadium	20	B	0.27	0.040	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	1
Zinc	45		1.1	0.22	mg/Kg	☼	08/23/14 08:30	08/24/14 03:13	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		08/28/14 09:00	08/28/14 18:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/28/14 09:00	08/28/14 18:41	1
Manganese	0.15		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.17	J	0.50	0.050	mg/L		08/26/14 07:55	08/26/14 19:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 19:03	1
Boron	0.078	J B	0.10	0.050	mg/L		08/26/14 07:55	08/26/14 19:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 19:03	1
Chromium	0.054		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:03	1
Cobalt	0.011	J	0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:03	1
Iron	59		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 19:03	1
Lead	0.035		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 19:03	1
Manganese	0.22		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:03	1
Nickel	0.054		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:03	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 19:03	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:03	1
Zinc	0.13	B	0.10	0.020	mg/L		08/26/14 07:55	08/26/14 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 07:55	08/26/14 18:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 18:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B09

Lab Sample ID: 500-82432-15

Date Collected: 08/14/14 12:45

Matrix: Solid

Date Received: 08/15/14 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	08/26/14 12:38	08/27/14 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	0.0076	mg/Kg	✱	08/25/14 14:00	08/26/14 10:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.48		0.200	0.200	SU	-		08/22/14 14:14	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B10

Lab Sample ID: 500-82432-16

Date Collected: 08/14/14 13:00

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Chloroethane	<0.0048	*	0.0048	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	08/15/14 08:20	08/18/14 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	08/15/14 08:20	08/18/14 19:53	1
Dibromofluoromethane	108		75 - 120	08/15/14 08:20	08/18/14 19:53	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	08/15/14 08:20	08/18/14 19:53	1
Toluene-d8 (Surr)	99		75 - 122	08/15/14 08:20	08/18/14 19:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B10

Lab Sample ID: 500-82432-16

Date Collected: 08/14/14 13:00

Matrix: Solid

Date Received: 08/15/14 07:00

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	0.045	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
4,6-Dinitro-2-methylphenol	<0.38	*	0.38	0.31	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B10

Lab Sample ID: 500-82432-16

Date Collected: 08/14/14 13:00

Matrix: Solid

Date Received: 08/15/14 07:00

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	0.010	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	08/24/14 20:45	08/26/14 05:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	36		25 - 110	08/24/14 20:45	08/26/14 05:15	1
Phenol-d5	37		31 - 110	08/24/14 20:45	08/26/14 05:15	1
Nitrobenzene-d5	32		25 - 115	08/24/14 20:45	08/26/14 05:15	1
2-Fluorobiphenyl	32		25 - 119	08/24/14 20:45	08/26/14 05:15	1
2,4,6-Tribromophenol	70		35 - 137	08/24/14 20:45	08/26/14 05:15	1
Terphenyl-d14	88		36 - 134	08/24/14 20:45	08/26/14 05:15	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0093		0.0093	0.0038	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
alpha-BHC	<0.0093	*	0.0093	0.0023	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
alpha-Chlordane	<0.0093	*	0.0093	0.0046	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
beta-BHC	<0.0093	*	0.0093	0.0028	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
4,4'-DDD	<0.0093		0.0093	0.0018	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
4,4'-DDE	<0.0093		0.0093	0.0015	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
4,4'-DDT	<0.0093	*	0.0093	0.0048	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
delta-BHC	<0.0093	*	0.0093	0.0029	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
Dieldrin	<0.0093		0.0093	0.0012	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
Endosulfan I	<0.0093		0.0093	0.0040	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
Endosulfan II	<0.0093		0.0093	0.0015	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
Endosulfan sulfate	<0.0093		0.0093	0.0017	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
Endrin	<0.0093		0.0093	0.0013	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
Endrin aldehyde	<0.0093		0.0093	0.0015	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
Endrin ketone	<0.0093		0.0093	0.0021	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
gamma-BHC (Lindane)	<0.0093		0.0093	0.0020	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
gamma-Chlordane	<0.0093		0.0093	0.0024	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
Heptachlor	<0.0093		0.0093	0.0038	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
Heptachlor epoxide	<0.0093	*	0.0093	0.0032	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
Methoxychlor	<0.045	*	0.045	0.0018	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5
Toxaphene	<0.091		0.091	0.038	mg/Kg	☼	08/25/14 13:13	08/26/14 19:43	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		56 - 128	08/25/14 13:13	08/26/14 19:43	5
Tetrachloro-m-xylene	94		45 - 112	08/25/14 13:13	08/26/14 19:43	5

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B10

Lab Sample ID: 500-82432-16

Date Collected: 08/14/14 13:00

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 86.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Arsenic	6.2		0.54	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Barium	44		0.54	0.058	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Beryllium	0.48		0.22	0.043	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Boron	1.9	J	2.7	0.54	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Cadmium	<0.11		0.11	0.014	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Calcium	20000	B	11	2.9	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Chromium	13		0.54	0.063	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Cobalt	6.4		0.27	0.054	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Copper	19		0.54	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Iron	16000		11	4.4	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Lead	11		0.27	0.081	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Magnesium	13000		5.4	1.1	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Manganese	300		0.54	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Nickel	18		0.54	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Potassium	820		27	1.6	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Selenium	<0.54	[^]	0.54	0.19	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Sodium	990		54	7.2	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Thallium	0.80		0.54	0.23	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Vanadium	21	B	0.27	0.040	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	1
Zinc	35		1.1	0.22	mg/Kg	☼	08/23/14 08:30	08/24/14 03:19	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		08/28/14 09:00	08/28/14 18:46	1
Chromium	<0.025		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 18:46	1
Iron	<0.20		0.20	0.20	mg/L		08/28/14 09:00	08/28/14 18:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/28/14 09:00	08/28/14 18:46	1
Manganese	0.44		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 18:46	1
Nickel	<0.025		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.50		0.50	0.050	mg/L		08/26/14 07:55	08/26/14 19:15	1
Beryllium	0.0073		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 19:15	1
Boron	0.10	B	0.10	0.050	mg/L		08/26/14 07:55	08/26/14 19:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 19:15	1
Chromium	0.18		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:15	1
Cobalt	0.050		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:15	1
Iron	230		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 19:15	1
Lead	0.16		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 19:15	1
Manganese	1.0		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:15	1
Nickel	0.23		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:15	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 19:15	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:15	1
Zinc	0.59	B	0.10	0.020	mg/L		08/26/14 07:55	08/26/14 19:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B10

Lab Sample ID: 500-82432-16

Date Collected: 08/14/14 13:00

Matrix: Solid

Date Received: 08/15/14 07:00

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		08/28/14 09:00	08/28/14 17:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 07:55	08/26/14 19:13	1
Thallium	0.0031		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00035		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 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	0.027		0.019	0.0074	mg/Kg	☼	08/25/14 14:00	08/26/14 10:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.45		0.200	0.200	SU			08/22/14 14:19	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B11

Lab Sample ID: 500-82432-17

Date Collected: 08/14/14 13:15

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Chloroethane	<0.0042	*	0.0042	0.0011	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00068	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	08/15/14 08:20	08/18/14 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	08/15/14 08:20	08/18/14 20:16	1
Dibromofluoromethane	105		75 - 120	08/15/14 08:20	08/18/14 20:16	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/15/14 08:20	08/18/14 20:16	1
Toluene-d8 (Surr)	97		75 - 122	08/15/14 08:20	08/18/14 20:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B11

Lab Sample ID: 500-82432-17

Date Collected: 08/14/14 13:15

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 86.0

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	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
2,4-Dinitrophenol	<0.75	*	0.75	0.65	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
4,6-Dinitro-2-methylphenol	<0.37	*	0.37	0.30	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Phenanthrene	0.0078	J	0.037	0.0052	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B11

Lab Sample ID: 500-82432-17

Date Collected: 08/14/14 13:15

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 86.0

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	☼	08/24/14 20:45	08/26/14 05:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	08/24/14 20:45	08/26/14 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		25 - 110	08/24/14 20:45	08/26/14 05:37	1
Phenol-d5	52		31 - 110	08/24/14 20:45	08/26/14 05:37	1
Nitrobenzene-d5	50		25 - 115	08/24/14 20:45	08/26/14 05:37	1
2-Fluorobiphenyl	37		25 - 119	08/24/14 20:45	08/26/14 05:37	1
2,4,6-Tribromophenol	50		35 - 137	08/24/14 20:45	08/26/14 05:37	1
Terphenyl-d14	93		36 - 134	08/24/14 20:45	08/26/14 05:37	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.038		0.038	0.016	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
alpha-BHC	<0.038	*	0.038	0.0096	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
alpha-Chlordane	<0.038	*	0.038	0.019	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
beta-BHC	<0.038	*	0.038	0.012	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
4,4'-DDD	<0.038		0.038	0.0075	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
4,4'-DDE	<0.038		0.038	0.0063	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
4,4'-DDT	<0.038	*	0.038	0.020	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
delta-BHC	<0.038	*	0.038	0.012	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
Dieldrin	<0.038		0.038	0.0052	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
Endosulfan I	<0.038		0.038	0.017	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
Endosulfan II	<0.038		0.038	0.0061	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
Endosulfan sulfate	<0.038		0.038	0.0069	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
Endrin	<0.038		0.038	0.0052	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
Endrin aldehyde	<0.038		0.038	0.0064	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
Endrin ketone	<0.038		0.038	0.0086	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
gamma-BHC (Lindane)	<0.038		0.038	0.0082	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
gamma-Chlordane	<0.038		0.038	0.0099	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
Heptachlor	<0.038		0.038	0.016	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
Heptachlor epoxide	<0.038	*	0.038	0.013	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
Methoxychlor	<0.19	*	0.19	0.0073	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20
Toxaphene	<0.38		0.38	0.16	mg/Kg	☼	08/25/14 13:13	08/26/14 20:03	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	D	56 - 128	08/25/14 13:13	08/26/14 20:03	20
Tetrachloro-m-xylene	0	D	45 - 112	08/25/14 13:13	08/26/14 20:03	20

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B11

Lab Sample ID: 500-82432-17

Date Collected: 08/14/14 13:15

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 86.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Arsenic	4.9		0.55	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Barium	39		0.55	0.059	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Beryllium	0.36		0.22	0.044	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Boron	5.6		2.7	0.55	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Cadmium	0.11		0.11	0.014	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Calcium	72000	B	55	15	mg/Kg	☼	08/23/14 08:30	08/26/14 11:16	5
Chromium	12		0.55	0.064	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Cobalt	7.2		0.27	0.055	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Copper	18		0.55	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Iron	14000		11	4.5	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Lead	10		0.27	0.082	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Magnesium	35000		5.5	1.1	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Manganese	330		0.55	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Nickel	19		0.55	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Potassium	1700		27	1.6	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Selenium	<0.55	^	0.55	0.19	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Silver	0.042	J B	0.27	0.020	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Sodium	840		55	7.3	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Thallium	0.67		0.55	0.23	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Vanadium	15	B	0.27	0.041	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	1
Zinc	34		1.1	0.22	mg/Kg	☼	08/23/14 08:30	08/24/14 03:26	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		08/28/14 09:00	08/28/14 18:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/28/14 09:00	08/28/14 18:59	1
Manganese	1.6		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 18:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.33	J	0.50	0.050	mg/L		08/26/14 07:55	08/26/14 19:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 19:19	1
Boron	0.52	B	0.10	0.050	mg/L		08/26/14 07:55	08/26/14 19:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 19:19	1
Chromium	0.069		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:19	1
Cobalt	0.023	J	0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:19	1
Iron	64		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 19:19	1
Lead	0.050		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 19:19	1
Manganese	0.52		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:19	1
Nickel	0.080		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:19	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 19:19	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:19	1
Zinc	0.24	B	0.10	0.020	mg/L		08/26/14 07:55	08/26/14 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 07:55	08/26/14 19:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 19:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B11

Lab Sample ID: 500-82432-17

Date Collected: 08/14/14 13:15

Matrix: Solid

Date Received: 08/15/14 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 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	0.018		0.017	0.0068	mg/Kg	*	08/25/14 14:00	08/26/14 10:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.70		0.200	0.200	SU			08/22/14 14:25	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B12

Lab Sample ID: 500-82432-18

Date Collected: 08/14/14 14:05

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0073		0.0047	0.0020	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Chloroethane	<0.0047	*	0.0047	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00083	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Vinyl acetate	<0.0047		0.0047	0.00073	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	08/15/14 08:20	08/18/14 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	08/15/14 08:20	08/18/14 20:39	1
Dibromofluoromethane	104		75 - 120	08/15/14 08:20	08/18/14 20:39	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/15/14 08:20	08/18/14 20:39	1
Toluene-d8 (Surr)	102		75 - 122	08/15/14 08:20	08/18/14 20:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B12

Lab Sample ID: 500-82432-18

Date Collected: 08/14/14 14:05

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 81.1

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	0.047	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Hexachlorocyclopentadiene	<0.79	*	0.79	0.23	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
4,6-Dinitro-2-methylphenol	<0.39	*	0.39	0.32	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Fluoranthene	0.0095	J	0.039	0.0073	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B12

Lab Sample ID: 500-82432-18

Date Collected: 08/14/14 14:05

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 81.1

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	☼	08/26/14 17:18	08/28/14 02:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	08/26/14 17:18	08/28/14 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		25 - 110	08/26/14 17:18	08/28/14 02:12	1
Phenol-d5	57		31 - 110	08/26/14 17:18	08/28/14 02:12	1
Nitrobenzene-d5	51		25 - 115	08/26/14 17:18	08/28/14 02:12	1
2-Fluorobiphenyl	50		25 - 119	08/26/14 17:18	08/28/14 02:12	1
2,4,6-Tribromophenol	26 X		35 - 137	08/26/14 17:18	08/28/14 02:12	1
Terphenyl-d14	62		36 - 134	08/26/14 17:18	08/28/14 02:12	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.021		0.021	0.0085	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
alpha-BHC	<0.021	*	0.021	0.0052	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
alpha-Chlordane	<0.021	*	0.021	0.010	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
beta-BHC	<0.021	*	0.021	0.0064	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
4,4'-DDD	<0.021		0.021	0.0041	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
4,4'-DDE	<0.021		0.021	0.0034	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
4,4'-DDT	<0.021	*	0.021	0.011	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
delta-BHC	<0.021	*	0.021	0.0065	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
Dieldrin	<0.021		0.021	0.0028	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
Endosulfan I	<0.021		0.021	0.0090	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
Endosulfan II	<0.021		0.021	0.0033	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
Endosulfan sulfate	<0.021		0.021	0.0037	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
Endrin	<0.021		0.021	0.0028	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
Endrin aldehyde	<0.021		0.021	0.0035	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
Endrin ketone	<0.021		0.021	0.0046	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
gamma-BHC (Lindane)	<0.021		0.021	0.0045	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
gamma-Chlordane	<0.021		0.021	0.0054	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
Heptachlor	<0.021		0.021	0.0086	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
Heptachlor epoxide	<0.021	*	0.021	0.0073	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
Methoxychlor	<0.10	*	0.10	0.0040	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10
Toxaphene	<0.21		0.21	0.087	mg/Kg	☼	08/25/14 13:13	08/26/14 20:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		56 - 128	08/25/14 13:13	08/26/14 20:22	10
Tetrachloro-m-xylene	104		45 - 112	08/25/14 13:13	08/26/14 20:22	10

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B12

Lab Sample ID: 500-82432-18

Date Collected: 08/14/14 14:05

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 81.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.1	0.46	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Arsenic	12		0.57	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Barium	45		0.57	0.061	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Beryllium	0.52		0.23	0.046	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Boron	3.7		2.9	0.57	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Cadmium	0.072	J	0.11	0.014	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Calcium	41000	B	11	3.1	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Chromium	15		0.57	0.066	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Cobalt	9.5		0.29	0.057	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Copper	30		0.57	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Iron	24000		11	4.7	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Lead	17		0.29	0.085	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Magnesium	23000		5.7	1.2	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Manganese	390		0.57	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Nickel	24		0.57	0.11	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Potassium	1600		29	1.7	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Selenium	1.3		1.1	0.41	mg/Kg	☼	08/23/14 08:30	08/26/14 11:20	2
Silver	0.055	J B	0.29	0.021	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Sodium	1800		57	7.6	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Thallium	1.0		0.57	0.24	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Vanadium	19	B	0.29	0.042	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	1
Zinc	57		1.1	0.23	mg/Kg	☼	08/23/14 08:30	08/24/14 03:32	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		08/28/14 09:00	08/28/14 19:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/28/14 09:00	08/28/14 19:04	1
Manganese	3.5		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 19:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36	J	0.50	0.050	mg/L		08/26/14 07:55	08/26/14 19:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 19:23	1
Boron	0.58	B	0.10	0.050	mg/L		08/26/14 07:55	08/26/14 19:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 19:23	1
Chromium	0.080		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:23	1
Cobalt	0.026		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:23	1
Iron	77		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 19:23	1
Lead	0.065		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 19:23	1
Manganese	0.47		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:23	1
Nickel	0.086		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:23	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 19:23	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:23	1
Zinc	0.29	B	0.10	0.020	mg/L		08/26/14 07:55	08/26/14 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 07:55	08/26/14 19:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 19:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Client Sample ID: 2143V-4-B12

Lab Sample ID: 500-82432-18

Date Collected: 08/14/14 14:05

Matrix: Solid

Date Received: 08/15/14 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 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	0.026		0.020	0.0078	mg/Kg	*	08/25/14 14:00	08/26/14 10:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.50		0.200	0.200	SU			08/22/14 14:30	1



Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-4

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



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@lestiamerica.com		Project Information Project Name: <u>IL59 Antwich, Lake Co.</u> Project No.: <u>FDOT 2013-089</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>CW/CM</u>		Administrative COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-82432</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	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
7	2143V-4-B01	8/14	9:10	S	X	X			X		X	X	X	X		0-8
8	2143V-4-B02		9:25													
9	2143V-4-B03		9:40													
10	2143V-4-B04		9:55													
11	2143V-4-B05		10:10													
12	2143V-4-B06		10:30													
13	2143V-4-B07		11:25													
14	2143V-4-B08		11:55													
15	2143V-4-B09		12:45													
16	2143V-4-B10		1:00													
17	2143V-4-B11		1:15													
18	2143V-4-B12		2:05	S	X	X			X		X	X	X	X		
Relinquished by:				Date/Time: 8/14/14 3:30		Received by: <u>[Signature]</u>		Date/Time: 8/14/14 1530								
Relinquished by:				Date/Time: 8/13/14 1:23		Received by: <u>[Signature]</u>		Date/Time: 8/15/14 0700								
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 104 (IL 59) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
39010 N. IL 59

City: Unincorporated State: IL Zip Code: 60046

County: Lake Township: Lake Villa

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

Latitude: 42.43054 Longitude: -88.11784
(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 104 (IL 59)

Latitude: 42.43054 Longitude: -88.11784

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 2143V-6-B02 AND -B03 WERE SAMPLED ADJACENT TO ISGS SITE 2143V-6. SEE FIGURES 3 AND 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]:

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBERS: 500-82524-1 AND 500-82432-5

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

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

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

Company Name: IDOT Bureau of Design and Environment

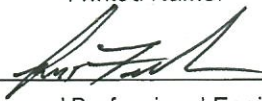
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Kurt T. Fischer

Printed Name:



11/5/14

Date:



Licensed Professional Engineer or Licensed Professional Geologist Signature:

IL P.E. or 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.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2143V-6

Residence

Sample ID	2143V-6-B02	2143V-6-B03	2143V-6-B03 DUP	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	0-5	0-5						
Sample Date	8/15/2014	8/14/2014	8/14/2014						
PID	0	0	0						
Sample pH	8.73	8.78	8.84						
Matrix	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: 500-82524-1
Client Project/Site: IDOT - IL 59 - WO 089

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

Attn: Ms. Colleen Grey



Authorized for release by:
9/2/2014 6:50:15 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.

1

2

3

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-1

Client Sample ID: 2143V-6-B02

Lab Sample ID: 500-82524-2

Date Collected: 08/15/14 10:40

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 85.8

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	☼	08/16/14 07:25	08/19/14 15:20	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Chloromethane	<0.0042		0.0042	0.00087	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Dibromochloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
1,1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Vinyl acetate	<0.0042		0.0042	0.00065	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Vinyl chloride	<0.0042		0.0042	0.00087	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1
Xylenes, Total	<0.0083		0.0083	0.00038	mg/Kg	☼	08/16/14 07:25	08/19/14 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	08/16/14 07:25	08/19/14 15:20	1
Dibromofluoromethane	105		75 - 120	08/16/14 07:25	08/19/14 15:20	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	08/16/14 07:25	08/19/14 15:20	1
Toluene-d8 (Surr)	102		75 - 122	08/16/14 07:25	08/19/14 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-1

Client Sample ID: 2143V-6-B02

Lab Sample ID: 500-82524-2

Date Collected: 08/15/14 10:40

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 85.8

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	0.046	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Hexachlorocyclopentadiene	<0.77	*	0.77	0.22	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
2,4-Dinitrophenol	<0.77	*	0.77	0.68	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Fluoranthene	0.0099	J	0.038	0.0071	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-1

Client Sample ID: 2143V-6-B02

Lab Sample ID: 500-82524-2

Date Collected: 08/15/14 10:40

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Benzo[b]fluoranthene	0.0088	J	0.038	0.0083	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	08/24/14 22:29	08/26/14 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		25 - 110				08/24/14 22:29	08/26/14 13:04	1
Phenol-d5	57		31 - 110				08/24/14 22:29	08/26/14 13:04	1
Nitrobenzene-d5	54		25 - 115				08/24/14 22:29	08/26/14 13:04	1
2-Fluorobiphenyl	53		25 - 119				08/24/14 22:29	08/26/14 13:04	1
2,4,6-Tribromophenol	46		35 - 137				08/24/14 22:29	08/26/14 13:04	1
Terphenyl-d14	59		36 - 134				08/24/14 22:29	08/26/14 13:04	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	☼	08/29/14 09:35	08/30/14 00:47	1
Arsenic	5.9		0.56	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Barium	49		0.56	0.060	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Beryllium	0.58		0.22	0.045	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Boron	11		2.8	0.56	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Cadmium	0.28		0.11	0.014	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Calcium	54000		11	3.0	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Chromium	18		0.56	0.065	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Cobalt	8.4		0.28	0.056	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Copper	21		0.56	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Iron	18000		11	4.6	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Lead	37		0.28	0.083	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Magnesium	28000		5.6	1.2	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Manganese	350		0.56	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Nickel	22		0.56	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Potassium	3100		28	1.7	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Sodium	1400	B	56	7.5	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Thallium	0.82		0.56	0.24	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Vanadium	21		0.28	0.041	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	1
Zinc	50		1.1	0.23	mg/Kg	☼	08/29/14 09:35	08/30/14 00:47	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		08/29/14 09:15	08/29/14 20:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/29/14 09:15	08/29/14 20:33	1
Manganese	0.82		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 20:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-1

Client Sample ID: 2143V-6-B02

Lab Sample ID: 500-82524-2

Date Collected: 08/15/14 10:40

Matrix: Solid

Date Received: 08/16/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.30	J	0.50	0.050	mg/L		08/26/14 10:20	08/26/14 19:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 10:20	08/26/14 19:50	1
Boron	0.12		0.10	0.050	mg/L		08/26/14 10:20	08/26/14 19:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 10:20	08/26/14 19:50	1
Chromium	0.089		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 19:50	1
Cobalt	0.040		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 19:50	1
Iron	100		0.20	0.20	mg/L		08/26/14 10:20	08/26/14 19:50	1
Lead	0.083		0.0075	0.0075	mg/L		08/26/14 10:20	08/26/14 19:50	1
Manganese	1.0		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 19:50	1
Nickel	0.10		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 19:50	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 10:20	08/26/14 19:50	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 19:50	1
Zinc	0.23		0.10	0.020	mg/L		08/26/14 10:20	08/26/14 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 10:20	08/26/14 19:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 10:20	08/26/14 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0019		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 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	0.028		0.018	0.0072	mg/Kg	✱	08/29/14 12:00	09/02/14 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.73		0.200	0.200	SU			08/27/14 11:42	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-1

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.
F1	MS and/or MSD Recovery exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park
 Phone: 708.534.5200 Fax: 708.534.5201



500-82524.COC

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-82524

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: (2.8) (2.7)

Lab ID	MS/MSD	Sample ID	Date	Sampling Time	Preservative	# of Containers	Matrix	Parameter	Preservative Key	Comments
1		2143V-6-B01	8/15	10:50				VOCs	1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NH4SO4 7. Cool to 4° 8. None 9. Other	0-5
2		2143V-6-B02	"	10:40				SVOCs		"
								9 Total Metals		
								SRP/TCLM Metals		
								90 Solids		

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other _____

Requested Due Date _____

Relinquished By: _____ Company: MEI Date: 8/15/14 Time: 3:20

Relinquished By: _____ Company: TA Date: 8/15/14 Time: 1530

Relinquished By: _____ Company: TA Date: 8/16/14 Time: 0630

Received By: _____ Company: TA Date: 8/15/14 Time: 1530

Received By: _____ Company: TA Date: 8/16/14 Time: 0630

Received By: _____ Company: TA Date: _____ Time: _____

Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab

Lab Courier: TA

Shipped: _____

Hand Delivered: _____

Client Comments: See AEs chain for special instructions

Lab Comments: _____

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

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: 500-82432-5
Client Project/Site: IDOT - IL 59 - WO 089

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

Attn: Ms. Colleen Grey



Authorized for release by:
8/29/2014 3:46:39 PM

Richard Wright, Senior Project Manager
(708)534-5200
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.

1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-5

Client Sample ID: 2143V-6-B03

Lab Sample ID: 500-82432-19

Date Collected: 08/14/14 15:25

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 92.9

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	☼	08/15/14 08:20	08/19/14 13:25	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Bromodichloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
1,2-Dichloropropane	<0.0044		0.0044	0.00068	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00080	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00061	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	08/15/14 08:20	08/19/14 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	08/15/14 08:20	08/19/14 13:25	1
Dibromofluoromethane	95		75 - 120	08/15/14 08:20	08/19/14 13:25	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/15/14 08:20	08/19/14 13:25	1
Toluene-d8 (Surr)	99		75 - 122	08/15/14 08:20	08/19/14 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.077	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
1,4-Dichlorobenzene	<0.17		0.17	0.045	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-5

Client Sample ID: 2143V-6-B03

Lab Sample ID: 500-82432-19

Date Collected: 08/14/14 15:25

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 92.9

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	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
2-Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Hexachloroethane	<0.17		0.17	0.053	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.036	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Hexachlorobutadiene	<0.17		0.17	0.055	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
2,4,5-Trichlorophenol	<0.35		0.35	0.079	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
2-Methylnaphthalene	<0.035		0.035	0.0064	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
2-Nitroaniline	<0.17		0.17	0.047	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
2-Nitrophenol	<0.35		0.35	0.082	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
2,4-Dinitrophenol	<0.70	*	0.70	0.61	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.046	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Hexachlorobenzene	<0.070		0.070	0.0081	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Diethyl phthalate	<0.17		0.17	0.059	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.041	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
4,6-Dinitro-2-methylphenol	<0.35	*	0.35	0.28	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Phenanthrene	<0.035		0.035	0.0048	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Anthracene	<0.035		0.035	0.0058	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Carbazole	<0.17		0.17	0.090	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Di-n-butyl phthalate	<0.17		0.17	0.053	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Pyrene	<0.035		0.035	0.0069	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Butyl benzyl phthalate	<0.17		0.17	0.066	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-5

Client Sample ID: 2143V-6-B03

Lab Sample ID: 500-82432-19

Date Collected: 08/14/14 15:25

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0095	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.049	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.064	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Di-n-octyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Benzo[b]fluoranthene	<0.035		0.035	0.0075	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Benzo[a]pyrene	<0.035		0.035	0.0067	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0090	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0067	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1
3 & 4 Methylphenol	<0.17		0.17	0.058	mg/Kg	☼	08/24/14 20:45	08/26/14 06:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		25 - 110	08/24/14 20:45	08/26/14 06:21	1
Phenol-d5	42		31 - 110	08/24/14 20:45	08/26/14 06:21	1
Nitrobenzene-d5	36		25 - 115	08/24/14 20:45	08/26/14 06:21	1
2-Fluorobiphenyl	39		25 - 119	08/24/14 20:45	08/26/14 06:21	1
2,4,6-Tribromophenol	69		35 - 137	08/24/14 20:45	08/26/14 06:21	1
Terphenyl-d14	87		36 - 134	08/24/14 20:45	08/26/14 06:21	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	☼	08/23/14 08:30	08/24/14 03:38	1
Arsenic	3.7		0.52	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Barium	15		0.52	0.055	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Beryllium	0.15	J	0.21	0.041	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Boron	2.8		2.6	0.52	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Cadmium	0.11		0.10	0.013	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Calcium	68000	B	52	14	mg/Kg	☼	08/23/14 08:30	08/26/14 11:24	5
Chromium	5.4		0.52	0.060	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Cobalt	3.0		0.26	0.052	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Copper	12		0.52	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Iron	7700		10	4.3	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Lead	13		0.26	0.077	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Magnesium	31000		5.2	1.1	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Manganese	240		0.52	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Nickel	6.6		0.52	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Potassium	490		26	1.6	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Selenium	<0.52	[^]	0.52	0.18	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Sodium	400		52	6.9	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Thallium	0.33	J	0.52	0.22	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Vanadium	9.6	B	0.26	0.038	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	1
Zinc	27		1.0	0.21	mg/Kg	☼	08/23/14 08:30	08/24/14 03:38	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		08/28/14 09:00	08/28/14 19:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/28/14 09:00	08/28/14 19:09	1
Manganese	0.89		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 19:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-5

Client Sample ID: 2143V-6-B03

Lab Sample ID: 500-82432-19

Date Collected: 08/14/14 15:25

Matrix: Solid

Date Received: 08/15/14 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J	0.50	0.050	mg/L		08/26/14 07:55	08/26/14 19:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 19:27	1
Boron	0.11	B	0.10	0.050	mg/L		08/26/14 07:55	08/26/14 19:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 19:27	1
Chromium	0.055		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:27	1
Cobalt	0.018	J	0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:27	1
Iron	54		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 19:27	1
Lead	0.050		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 19:27	1
Manganese	0.46		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:27	1
Nickel	0.059		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:27	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 19:27	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:27	1
Zinc	0.16	B	0.10	0.020	mg/L		08/26/14 07:55	08/26/14 19:27	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		08/26/14 07:55	08/26/14 19:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 09:49	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	0.0070	J	0.017	0.0067	mg/Kg	✱	08/25/14 14:00	08/26/14 10:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.78		0.200	0.200	SU			08/22/14 14:36	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-5

Client Sample ID: 2143V-6-B03 Dup

Lab Sample ID: 500-82432-20

Date Collected: 08/14/14 15:30

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0018	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Benzene	<0.0043		0.0043	0.00058	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Bromoform	<0.0043		0.0043	0.00098	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Carbon tetrachloride	<0.0043		0.0043	0.00077	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Chlorobenzene	<0.0043		0.0043	0.00043	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Chloromethane	<0.0043		0.0043	0.00089	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Dibromochloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
1,1-Dichloroethane	<0.0043		0.0043	0.00067	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Ethylbenzene	<0.0043		0.0043	0.00086	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Methylene Chloride	<0.0043		0.0043	0.0011	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00070	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00086	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Tetrachloroethene	<0.0043		0.0043	0.00065	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00076	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Trichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Vinyl acetate	<0.0043		0.0043	0.00067	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Vinyl chloride	<0.0043		0.0043	0.00089	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1
Xylenes, Total	<0.0085		0.0085	0.00039	mg/Kg	☼	08/15/14 08:20	08/19/14 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	08/15/14 08:20	08/19/14 13:47	1
Dibromofluoromethane	94		75 - 120	08/15/14 08:20	08/19/14 13:47	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	08/15/14 08:20	08/19/14 13:47	1
Toluene-d8 (Surr)	105		75 - 122	08/15/14 08:20	08/19/14 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.077	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-5

Client Sample ID: 2143V-6-B03 Dup

Lab Sample ID: 500-82432-20

Date Collected: 08/14/14 15:30

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 92.4

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	0.041	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Nitrobenzene	<0.034		0.034	0.0086	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Naphthalene	<0.034		0.034	0.0053	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
2,4-Dichlorophenol	<0.34		0.34	0.082	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
2,4,5-Trichlorophenol	<0.34		0.34	0.079	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
2-Methylnaphthalene	<0.034		0.034	0.0064	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
2-Nitrophenol	<0.34		0.34	0.082	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
2,4-Dinitrophenol	<0.70	*	0.70	0.61	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Acenaphthylene	<0.034		0.034	0.0046	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Acenaphthene	<0.034		0.034	0.0062	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Fluorene	<0.034		0.034	0.0049	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.046	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Hexachlorobenzene	<0.070		0.070	0.0080	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Diethyl phthalate	<0.17		0.17	0.059	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Pentachlorophenol	<0.70		0.70	0.55	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
4,6-Dinitro-2-methylphenol	<0.34	*	0.34	0.28	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Phenanthrene	<0.034		0.034	0.0048	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Anthracene	<0.034		0.034	0.0058	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Carbazole	<0.17		0.17	0.089	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Di-n-butyl phthalate	<0.17		0.17	0.053	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Fluoranthene	0.012	J	0.034	0.0064	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Pyrene	0.012	J	0.034	0.0069	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Butyl benzyl phthalate	<0.17		0.17	0.066	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Benzo[a]anthracene	0.0078	J	0.034	0.0046	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-5

Client Sample ID: 2143V-6-B03 Dup

Lab Sample ID: 500-82432-20

Date Collected: 08/14/14 15:30

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.034		0.034	0.0094	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Benzo[b]fluoranthene	0.0099	J	0.034	0.0075	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Benzo[a]pyrene	<0.034		0.034	0.0067	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.0089	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0067	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1
3 & 4 Methylphenol	<0.17		0.17	0.058	mg/Kg	☼	08/24/14 20:45	08/26/14 06:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	08/24/14 20:45	08/26/14 06:43	1
Phenol-d5	48		31 - 110	08/24/14 20:45	08/26/14 06:43	1
Nitrobenzene-d5	47		25 - 115	08/24/14 20:45	08/26/14 06:43	1
2-Fluorobiphenyl	46		25 - 119	08/24/14 20:45	08/26/14 06:43	1
2,4,6-Tribromophenol	58		35 - 137	08/24/14 20:45	08/26/14 06:43	1
Terphenyl-d14	87		36 - 134	08/24/14 20:45	08/26/14 06:43	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	☼	08/23/14 08:30	08/24/14 04:00	1
Arsenic	3.5		0.52	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Barium	11		0.52	0.055	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Beryllium	0.13	J	0.21	0.041	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Boron	3.9		2.6	0.52	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Cadmium	0.069	J	0.10	0.013	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Calcium	79000	B	52	14	mg/Kg	☼	08/23/14 08:30	08/26/14 11:28	5
Chromium	4.6		0.52	0.060	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Cobalt	2.5		0.26	0.052	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Copper	10		0.52	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Iron	6900		10	4.2	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Lead	7.7		0.26	0.077	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Magnesium	39000		5.2	1.1	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Manganese	290		0.52	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Nickel	5.6		0.52	0.10	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Potassium	470		26	1.6	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Selenium	<0.52	^	0.52	0.18	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Sodium	330		52	6.9	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Thallium	0.22	J	0.52	0.22	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Vanadium	7.9	B	0.26	0.038	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	1
Zinc	22		1.0	0.21	mg/Kg	☼	08/23/14 08:30	08/24/14 04:00	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		08/28/14 09:00	08/28/14 19:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/28/14 09:00	08/28/14 19:14	1
Manganese	0.13		0.025	0.010	mg/L		08/28/14 09:00	08/28/14 19:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-5

Client Sample ID: 2143V-6-B03 Dup

Lab Sample ID: 500-82432-20

Date Collected: 08/14/14 15:30

Matrix: Solid

Date Received: 08/15/14 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.13	J	0.50	0.050	mg/L		08/26/14 07:55	08/26/14 19:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 19:31	1
Boron	0.084	J B	0.10	0.050	mg/L		08/26/14 07:55	08/26/14 19:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 19:31	1
Chromium	0.037		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:31	1
Cobalt	0.010	J	0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:31	1
Iron	35		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 19:31	1
Lead	0.040		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 19:31	1
Manganese	0.31		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:31	1
Nickel	0.036		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:31	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 19:31	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 19:31	1
Zinc	0.11	B	0.10	0.020	mg/L		08/26/14 07:55	08/26/14 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	0.0060	mg/L		08/26/14 07:55	08/26/14 19:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 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	0.0090	J	0.016	0.0063	mg/Kg	✱	08/25/14 14:00	08/26/14 10:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.84		0.200	0.200	SU			08/22/14 14:41	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-5

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.
^	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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



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@testamericalnc.com
Project Name: <u>IL59 Antioch, Lake Co.</u> Project No.: <u>IDOT 2013-089</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		Project Name: <u>IL59 Antioch, Lake Co.</u> Project No.: <u>IDOT 2013-089</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	
COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-82432</u>		Sample Temp: _____ Sampler: <u>CN/CM</u>	

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
	2143V-6-B01			S	X	X					X	X	X	X		
	2143V-6-B02			S	X	X					X	X	X	X		
19	2143V-6-B03	8/14	3:25	S	X	X					X	X	X	X		0-5
20	2143V-6-B03DUP	"	3:30	S	X	X					X	X	X	X		"

Relinquished by:	Date/Time: 8/14/14 3:30	Received by:	Date/Time: 8/14/14 1530
Relinquished by:	Date/Time: 8/14/14 1:30	Received by:	Date/Time: 8/15/14 0700
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 104 (IL 59) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
38988 N. IL 59

City: Unincorporated State: IL Zip Code: 60046

County: Lake Township: Lake Villa

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

Latitude: 42.42979 Longitude: -88.11815
(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 104 (IL 59)

Latitude: 42.42979 Longitude: -88.11815

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 2143V-7-B02 WAS SAMPLED ADJACENT TO ISGS SITE 2143V-7. SEE FIGURE 3 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]:

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID: 500-82524-2

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

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

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

Company Name: IDOT Bureau of Design and Environment

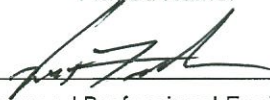
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Kurt T. Fischer

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/5/14

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.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2143V-7

Residence

Sample ID	2143V-7-B02						
Sample Depth (ft)	0-5.5						
Sample Date	8/15/2014						
PID	0						
Sample pH	8.82						
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: 500-82524-2
Client Project/Site: IDOT - IL 59 - WO 089

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

Attn: Ms. Colleen Grey



Authorized for release by:
9/2/2014 6:50:39 PM

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

LINKS

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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.

1

2

3

4

5

6

7

8

9

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-2

Client Sample ID: 2143V-7-B02

Lab Sample ID: 500-82524-4

Date Collected: 08/15/14 11:25

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 87.2

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	☼	08/16/14 07:25	08/19/14 16:05	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	08/16/14 07:25	08/19/14 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	08/16/14 07:25	08/19/14 16:05	1
Dibromofluoromethane	105		75 - 120	08/16/14 07:25	08/19/14 16:05	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	08/16/14 07:25	08/19/14 16:05	1
Toluene-d8 (Surr)	99		75 - 122	08/16/14 07:25	08/19/14 16:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.082	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-2

Client Sample ID: 2143V-7-B02

Lab Sample ID: 500-82524-4

Date Collected: 08/15/14 11:25

Matrix: Solid

Date Received: 08/16/14 06:30

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	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Nitrobenzene	<0.036		0.036	0.0092	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Hexachlorocyclopentadiene	<0.74	*	0.74	0.21	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
2-Methylnaphthalene	<0.036		0.036	0.0068	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
2,4-Dinitrophenol	<0.74	*	0.74	0.65	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Fluorene	<0.036		0.036	0.0052	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.30	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Carbazole	<0.18		0.18	0.095	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Pyrene	<0.036		0.036	0.0073	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-2

Client Sample ID: 2143V-7-B02

Lab Sample ID: 500-82524-4

Date Collected: 08/15/14 11:25

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.010	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0095	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0071	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	08/24/14 22:29	08/27/14 05:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110	08/24/14 22:29	08/27/14 05:18	1
Phenol-d5	60		31 - 110	08/24/14 22:29	08/27/14 05:18	1
Nitrobenzene-d5	56		25 - 115	08/24/14 22:29	08/27/14 05:18	1
2-Fluorobiphenyl	53		25 - 119	08/24/14 22:29	08/27/14 05:18	1
2,4,6-Tribromophenol	36		35 - 137	08/24/14 22:29	08/27/14 05:18	1
Terphenyl-d14	63		36 - 134	08/24/14 22:29	08/27/14 05:18	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	☼	08/29/14 09:35	08/30/14 01:00	1
Arsenic	6.3		0.54	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Barium	41		0.54	0.057	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Beryllium	0.54		0.21	0.043	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Boron	10		2.7	0.54	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Cadmium	0.24		0.11	0.014	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Calcium	95000		110	29	mg/Kg	☼	08/29/14 09:35	09/02/14 10:40	10
Chromium	16		0.54	0.062	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Cobalt	8.7		0.27	0.054	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Copper	18		0.54	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Iron	17000		11	4.4	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Lead	9.3		0.27	0.080	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Magnesium	32000		5.4	1.1	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Manganese	390		0.54	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Nickel	23		0.54	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Potassium	3000		27	1.6	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	08/29/14 09:35	08/30/14 22:38	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Sodium	430 B		54	7.2	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Thallium	0.86		0.54	0.23	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Vanadium	18		0.27	0.040	mg/Kg	☼	08/29/14 09:35	08/30/14 01:00	1
Zinc	39		1.1	0.22	mg/Kg	☼	08/29/14 09:35	08/30/14 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		08/29/14 09:15	08/29/14 20:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/29/14 09:15	08/29/14 20:45	1
Manganese	0.21		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 20:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-2

Client Sample ID: 2143V-7-B02

Lab Sample ID: 500-82524-4

Date Collected: 08/15/14 11:25

Matrix: Solid

Date Received: 08/16/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27	J	0.50	0.050	mg/L		08/26/14 10:20	08/26/14 20:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 10:20	08/26/14 20:18	1
Boron	0.56		0.10	0.050	mg/L		08/26/14 10:20	08/26/14 20:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 10:20	08/26/14 20:18	1
Chromium	0.050		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:18	1
Cobalt	0.013	J	0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:18	1
Iron	44		0.20	0.20	mg/L		08/26/14 10:20	08/26/14 20:18	1
Lead	0.028		0.0075	0.0075	mg/L		08/26/14 10:20	08/26/14 20:18	1
Manganese	0.21		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:18	1
Nickel	0.050		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:18	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 10:20	08/26/14 20:18	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:18	1
Zinc	0.19		0.10	0.020	mg/L		08/26/14 10:20	08/26/14 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 10:20	08/26/14 20:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 10:20	08/26/14 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 11:14	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	0.020		0.016	0.0065	mg/Kg	✱	08/29/14 12:00	09/02/14 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.82		0.200	0.200	SU			08/27/14 11:55	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-2

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.
*	ISTD response or retention time outside acceptable 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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



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>IL 59 Antioch, Lake Co</u> Project No.: <u>IDOT 2013-089</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>CN/CM</u>	COC No.: _____ of _____ Lab Job No.: <u>500-8252A</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		Comments																	
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				
3	2143 V-7-B01	8/15	11:50	S	X	X					X	X	X	X					
4	2143 V-7-B02	"	11:25	S	X	X					X	X	X	X					
Relinquished by: _____					Date/Time: <u>8/15/14 3:20</u>	Received by: _____													
Relinquished by: _____					Date/Time: <u>8/15/14 1:40</u>	Received by: _____													
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 104 (IL 59) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
39000 block of N. IL 59 (Intersection of IL 59 and Petite Lake Road)

City: Unincorporated State: IL Zip Code: 60046

County: Lake Township: Lake Villa

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

Latitude: 42.42995 Longitude: -88.11788
(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: 0970053007 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 104 (IL 59)

Latitude: 42.42995 Longitude: -88.11788

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 2143V-8-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE 2143V-8. SEE FIGURE 3 AND TABLE 3g OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBERS: 500-82524-3 AND 500-82432-6

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

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

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

Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

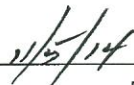
Phone: 217.785.4246

Kurt T. Fischer

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:



Date:



IL 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.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2143V-8

IDOT ROW

Sample ID	2143V-8-B01	2143V-8-B02	2143V-8-B02 DUP						
Sample Depth (ft)	0-7.5	0-7.5	0-7.5						
Sample Date	8/15/2014	8/14/2014	8/14/2014						
PID	0	0	0						
Sample pH	8.77	8.37	8.53						
Matrix	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: 500-82524-3
Client Project/Site: IDOT - IL 59 - WO 089

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

Attn: Ms. Colleen Grey



Authorized for release by:
9/2/2014 6:51:04 PM

Richard Wright, Senior Project Manager
(708)534-5200
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.

1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-3

Client Sample ID: 2143V-8-B01

Lab Sample ID: 500-82524-5

Date Collected: 08/15/14 11:05

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 84.0

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	☼	08/16/14 07:25	08/19/14 16:28	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Carbon tetrachloride	<0.0044		0.0044	0.00079	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
1,1-Dichloroethene	<0.0044		0.0044	0.00070	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
1,2-Dichloropropane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Ethylbenzene	<0.0044		0.0044	0.00088	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00088	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00078	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00059	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1
Xylenes, Total	<0.0087		0.0087	0.00040	mg/Kg	☼	08/16/14 07:25	08/19/14 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	08/16/14 07:25	08/19/14 16:28	1
Dibromofluoromethane	105		75 - 120	08/16/14 07:25	08/19/14 16:28	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	08/16/14 07:25	08/19/14 16:28	1
Toluene-d8 (Surr)	97		75 - 122	08/16/14 07:25	08/19/14 16:28	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	☼	08/24/14 22:29	08/27/14 05:40	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-3

Client Sample ID: 2143V-8-B01

Lab Sample ID: 500-82524-5

Date Collected: 08/15/14 11:05

Matrix: Solid

Date Received: 08/16/14 06:30

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	0.046	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Hexachlorocyclopentadiene	<0.78	*	0.78	0.22	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Carbazole	<0.19		0.19	0.10	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-3

Client Sample ID: 2143V-8-B01

Lab Sample ID: 500-82524-5

Date Collected: 08/15/14 11:05

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	08/24/14 22:29	08/27/14 05:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		25 - 110	08/24/14 22:29	08/27/14 05:40	1
Phenol-d5	53		31 - 110	08/24/14 22:29	08/27/14 05:40	1
Nitrobenzene-d5	49		25 - 115	08/24/14 22:29	08/27/14 05:40	1
2-Fluorobiphenyl	50		25 - 119	08/24/14 22:29	08/27/14 05:40	1
2,4,6-Tribromophenol	28	X	35 - 137	08/24/14 22:29	08/27/14 05:40	1
Terphenyl-d14	62		36 - 134	08/24/14 22:29	08/27/14 05:40	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	☼	08/29/14 09:35	08/30/14 01:07	1
Arsenic	9.5		0.57	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Barium	46		0.57	0.061	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Beryllium	0.65		0.23	0.046	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Boron	8.7		2.9	0.57	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Cadmium	0.14		0.11	0.015	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Calcium	38000		11	3.1	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Chromium	21		0.57	0.066	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Cobalt	11		0.29	0.057	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Copper	23		0.57	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Iron	25000		11	4.7	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Lead	13		0.29	0.085	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Magnesium	20000		5.7	1.2	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Manganese	380		0.57	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Nickel	26		0.57	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Potassium	2900		29	1.7	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Selenium	0.46	J	0.57	0.20	mg/Kg	☼	08/29/14 09:35	08/30/14 22:47	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Sodium	970	B	57	7.7	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Thallium	0.81		0.57	0.24	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Vanadium	26		0.29	0.042	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	1
Zinc	50		1.1	0.23	mg/Kg	☼	08/29/14 09:35	08/30/14 01:07	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		08/29/14 09:15	08/29/14 20:52	1
Chromium	<0.025		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 20:52	1
Iron	<0.20		0.20	0.20	mg/L		08/29/14 09:15	08/29/14 20:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-3

Client Sample ID: 2143V-8-B01

Lab Sample ID: 500-82524-5

Date Collected: 08/15/14 11:05

Matrix: Solid

Date Received: 08/16/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		08/29/14 09:15	08/29/14 20:52	1
Manganese	1.9		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 20:52	1
Nickel	<0.025		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 20:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49	J	0.50	0.050	mg/L		08/26/14 10:20	08/26/14 20:22	1
Beryllium	0.0074		0.0040	0.0040	mg/L		08/26/14 10:20	08/26/14 20:22	1
Boron	0.19		0.10	0.050	mg/L		08/26/14 10:20	08/26/14 20:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 10:20	08/26/14 20:22	1
Chromium	0.17		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:22	1
Cobalt	0.057		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:22	1
Iron	190		0.20	0.20	mg/L		08/26/14 10:20	08/26/14 20:22	1
Lead	0.11		0.0075	0.0075	mg/L		08/26/14 10:20	08/26/14 20:22	1
Manganese	1.3		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:22	1
Nickel	0.19		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:22	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 10:20	08/26/14 20:22	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:22	1
Zinc	0.43		0.10	0.020	mg/L		08/26/14 10:20	08/26/14 20:22	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		08/29/14 09:15	08/29/14 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	0.0060	mg/L		08/26/14 10:20	08/26/14 20:23	1
Thallium	0.0037		0.0020	0.0020	mg/L		08/26/14 10:20	08/26/14 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00035		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 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	0.034		0.018	0.0072	mg/Kg	☼	08/29/14 12:00	09/02/14 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.77		0.200	0.200	SU			08/27/14 12:02	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits
*	ISTD response or retention time outside acceptable 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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
 Report To _____
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

(optional)

Bill To _____
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: **500-8252A**

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: _____

Client	Client Project #	Project Name	Project Location/State	Sampler	Lab PM	Preservative		Matrix	M/MSD	Lab ID	Sample ID	Sampling		Date	Time	# of Containers	Preservative Key	
						Parameter	Matrix					Date	Time					
AGI	JDOT2013-08 ^m	IL 59 Antioch Lake Co.		CN/CM						5	2143V-8-B01	8/15	11:05				1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
							VOC's		X									
							SVEC's		X									
							Total Metals		X									
							SPLE/TEC & Metals		X									
							PH		X									
							90 Solids		X									

Turnaround Time Required (Business Days) 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other _____ (A fee may be assessed if samples are retained longer than 1 month)

Requested Due Date _____

Relinquished By *[Signature]* Date **8/15/14** Company **AGI**

Received By *[Signature]* Date **8/15/14** Company **AGI** Time **3:20**

Relinquished By *[Signature]* Date **8/15/14** Company **AGI**

Received By *[Signature]* Date **8/16/14** Company **AGI** Time **0630**

Lab Courier **TA**

Shipped _____

Hand Delivered _____

Client Comments: **See AGI chains for special instructions**

Lab Comments: _____

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

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: 500-82432-6
Client Project/Site: IDOT - IL 59 - WO 089

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

Attn: Ms. Colleen Grey



Authorized for release by:
8/29/2014 3:48:07 PM

Richard Wright, Senior Project Manager
(708)534-5200
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.

1

2

3

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-6

Client Sample ID: 2143V-8-B02

Lab Sample ID: 500-82432-21

Date Collected: 08/14/14 12:10

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Carbon tetrachloride	<0.0048		0.0048	0.00086	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00062	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
1,2-Dichloroethane	<0.0048		0.0048	0.00070	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00062	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0012	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00078	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Styrene	<0.0048		0.0048	0.00062	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00065	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00085	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Trichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	08/15/14 08:20	08/19/14 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 122	08/15/14 08:20	08/19/14 14:10	1
Dibromofluoromethane	93		75 - 120	08/15/14 08:20	08/19/14 14:10	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	08/15/14 08:20	08/19/14 14:10	1
Toluene-d8 (Surr)	102		75 - 122	08/15/14 08:20	08/19/14 14:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-6

Client Sample ID: 2143V-8-B02

Lab Sample ID: 500-82432-21

Date Collected: 08/14/14 12:10

Matrix: Solid

Date Received: 08/15/14 07:00

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	<0.19		0.19	0.045	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Hexachlorocyclopentadiene	<0.76	*	0.76	0.22	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-6

Client Sample ID: 2143V-8-B02

Lab Sample ID: 500-82432-21

Date Collected: 08/14/14 12:10

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	08/25/14 19:19	08/27/14 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	08/25/14 19:19	08/27/14 02:16	1
Phenol-d5	55		31 - 110	08/25/14 19:19	08/27/14 02:16	1
Nitrobenzene-d5	64		25 - 115	08/25/14 19:19	08/27/14 02:16	1
2-Fluorobiphenyl	57		25 - 119	08/25/14 19:19	08/27/14 02:16	1
2,4,6-Tribromophenol	37		35 - 137	08/25/14 19:19	08/27/14 02:16	1
Terphenyl-d14	75		36 - 134	08/25/14 19:19	08/27/14 02:16	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	☼	08/26/14 10:40	08/27/14 01:10	1
Arsenic	6.5		0.56	0.11	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Barium	35		0.56	0.060	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Beryllium	0.54		0.22	0.045	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Boron	4.8		2.8	0.56	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Cadmium	0.61		0.11	0.014	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Calcium	50000	B	11	3.0	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Chromium	16	B	0.56	0.065	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Cobalt	10		0.28	0.056	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Copper	21	B	0.56	0.11	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Iron	19000		11	4.6	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Lead	10		0.28	0.084	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Magnesium	30000	B	5.6	1.2	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Manganese	430		0.56	0.11	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Nickel	23		0.56	0.11	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Potassium	1800		28	1.7	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Silver	0.024	J	0.28	0.020	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Sodium	100		56	7.5	mg/Kg	☼	08/26/14 10:40	08/28/14 14:27	1
Thallium	0.86		0.56	0.24	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Vanadium	18		0.28	0.042	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1
Zinc	54		1.1	0.23	mg/Kg	☼	08/26/14 10:40	08/27/14 01:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.15	J	0.50	0.050	mg/L		08/26/14 07:55	08/26/14 17:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 17:01	1
Boron	0.51		0.10	0.050	mg/L		08/26/14 07:55	08/26/14 17:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-6

Client Sample ID: 2143V-8-B02

Lab Sample ID: 500-82432-21

Date Collected: 08/14/14 12:10

Matrix: Solid

Date Received: 08/15/14 07:00

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		08/26/14 07:55	08/26/14 17:01	1
Chromium	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:01	1
Cobalt	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:01	1
Iron	1.9		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 17:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 17:01	1
Manganese	0.018	J	0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:01	1
Nickel	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:01	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 17:01	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:01	1
Zinc	0.088	J	0.10	0.020	mg/L		08/26/14 07:55	08/26/14 17:01	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		08/26/14 07:55	08/26/14 16:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 16:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 09:59	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	0.021		0.018	0.0070	mg/Kg	☆	08/25/14 14:00	08/26/14 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.37		0.200	0.200	SU			08/22/14 14:46	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-6

Client Sample ID: 2143V-8-B02 Dup

Lab Sample ID: 500-82432-22

Date Collected: 08/14/14 12:15

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Benzene	<0.0041		0.0041	0.00057	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Chloromethane	<0.0041		0.0041	0.00087	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
1,1-Dichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
1,2-Dichloropropane	<0.0041		0.0041	0.00063	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Vinyl acetate	<0.0041		0.0041	0.00065	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Vinyl chloride	<0.0041		0.0041	0.00087	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1
Xylenes, Total	<0.0083		0.0083	0.00037	mg/Kg	☼	08/15/14 08:20	08/19/14 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	08/15/14 08:20	08/19/14 14:34	1
Dibromofluoromethane	103		75 - 120	08/15/14 08:20	08/19/14 14:34	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	08/15/14 08:20	08/19/14 14:34	1
Toluene-d8 (Surr)	98		75 - 122	08/15/14 08:20	08/19/14 14:34	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	☼	08/25/14 19:19	08/27/14 02:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-6

Client Sample ID: 2143V-8-B02 Dup

Lab Sample ID: 500-82432-22

Date Collected: 08/14/14 12:15

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 87.6

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	0.044	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Hexachlorocyclopentadiene	<0.75	*	0.75	0.21	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-6

Client Sample ID: 2143V-8-B02 Dup

Lab Sample ID: 500-82432-22

Date Collected: 08/14/14 12:15

Matrix: Solid

Date Received: 08/15/14 07:00

Percent Solids: 87.6

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	☼	08/25/14 19:19	08/27/14 02:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	08/25/14 19:19	08/27/14 02:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	45		25 - 110	08/25/14 19:19	08/27/14 02:33	1
Phenol-d5	45		31 - 110	08/25/14 19:19	08/27/14 02:33	1
Nitrobenzene-d5	52		25 - 115	08/25/14 19:19	08/27/14 02:33	1
2-Fluorobiphenyl	49		25 - 119	08/25/14 19:19	08/27/14 02:33	1
2,4,6-Tribromophenol	31	X	35 - 137	08/25/14 19:19	08/27/14 02:33	1
Terphenyl-d14	70		36 - 134	08/25/14 19:19	08/27/14 02:33	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	☼	08/26/14 10:40	08/27/14 01:17	1
Arsenic	7.1		0.54	0.11	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Barium	32		0.54	0.058	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Beryllium	0.48		0.22	0.044	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Boron	4.2		2.7	0.54	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Cadmium	0.65		0.11	0.014	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Calcium	68000	B	110	29	mg/Kg	☼	08/26/14 10:40	08/28/14 14:37	10
Chromium	15	B	0.54	0.063	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Cobalt	9.5		0.27	0.054	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Copper	23	B	0.54	0.11	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Iron	20000		11	4.5	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Lead	11		0.27	0.081	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Magnesium	31000	B	5.4	1.1	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Manganese	440		0.54	0.11	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Nickel	24		0.54	0.11	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Potassium	1500		27	1.6	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Silver	0.060	J	0.27	0.020	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Sodium	120		54	7.3	mg/Kg	☼	08/26/14 10:40	08/28/14 14:32	1
Thallium	1.0		0.54	0.23	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Vanadium	17		0.27	0.040	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	1
Zinc	50		1.1	0.22	mg/Kg	☼	08/26/14 10:40	08/27/14 01:17	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		08/28/14 09:00	08/28/14 19:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/28/14 09:00	08/28/14 19:20	1
Manganese	0.013	J	0.025	0.010	mg/L		08/28/14 09:00	08/28/14 19:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-6

Client Sample ID: 2143V-8-B02 Dup

Lab Sample ID: 500-82432-22

Date Collected: 08/14/14 12:15

Matrix: Solid

Date Received: 08/15/14 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.21	J	0.50	0.050	mg/L		08/26/14 07:55	08/26/14 17:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 17:05	1
Boron	0.15		0.10	0.050	mg/L		08/26/14 07:55	08/26/14 17:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 17:05	1
Chromium	0.064		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:05	1
Cobalt	0.014	J	0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:05	1
Iron	61		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 17:05	1
Lead	0.038		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 17:05	1
Manganese	0.24		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:05	1
Nickel	0.063		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:05	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 17:05	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:05	1
Zinc	0.16		0.10	0.020	mg/L		08/26/14 07:55	08/26/14 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 07:55	08/26/14 16:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 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	0.00020	mg/L		08/26/14 12:38	08/27/14 10:01	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	0.027		0.018	0.0072	mg/Kg	✱	08/25/14 14:00	08/26/14 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.53		0.200	0.200	SU			08/22/14 14:52	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82432-6

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD 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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



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>IL59 Antioch, Lake Co.</u> Project No.: <u>IDOT 2013-089</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>CM/CM</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>500-82432</u> 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	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
	2143V-8-B01			S	X						X	X	X	X		
21	2143V-8-B02	8/14	12:10	S	X						X	X	X	X		
22	2143V-8-B02DUP	"	12:15	S	X						X	X	X	X		0-7.5

ANALYSES

Relinquished by: Date/Time: 8/14/14 3:50 Received by: Date/Time: 8/15/14 15:30

Relinquished by: Date/Time: 8/14/14 1:50 Received by: Date/Time: 8/15/14 0:00

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 104 (IL 59) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
38800-38956 N. IL 59; 24978 W. Dering Lane; 25059-25065 W. Megan Court

City: Unincorporated State: IL Zip Code: 60046

County: Lake Township: Lake Villa

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

Latitude: 42.42822 Longitude: -88.11867
(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 104 (IL 59)
 Latitude: 42.42822 Longitude: -88.11867

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 2143V-9-B01, -B02, -B03, -B04 AND -B06 WERE SAMPLED ADJACENT TO ISGS SITE 2143V-9. SEE FIGURES 2 AND 3 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]:

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID: 500-82524-4


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

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

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

Company Name: IDOT Bureau of Design and Environment
 Street Address: 2300 South Dirksen Parkway
 City: Springfield State: IL Zip Code: 62764
 Phone: 217.785.4246

Kurt T. Fischer
 Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

11/5/14
 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.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2143V-9

Residences and Vacant Lot

Sample ID	2143V-9-B01	2143V-9-B02	2143V-9-B03	2143V-9-B04	2143V-9-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)	0-5	0-5	0-5	0-5	0-3						
Sample Date	8/15/2014	8/15/2014	8/15/2014	8/15/2014	8/15/2014						
PID	0	0	0	0	0						
Sample pH	8.26	8.56	8.69	7.98	8.79						
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: 500-82524-4
Client Project/Site: IDOT - IL 59 - WO 089

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

Attn: Ms. Colleen Grey



Authorized for release by:
9/2/2014 6:51:32 PM

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

LINKS

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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.

1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B01

Lab Sample ID: 500-82524-6

Date Collected: 08/15/14 13:15

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0020	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00060	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00060	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Styrene	<0.0045		0.0045	0.00060	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Toluene	<0.0045		0.0045	0.00064	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	08/16/14 07:25	08/19/14 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	08/16/14 07:25	08/19/14 16:51	1
Dibromofluoromethane	103		75 - 120	08/16/14 07:25	08/19/14 16:51	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	08/16/14 07:25	08/19/14 16:51	1
Toluene-d8 (Surr)	98		75 - 122	08/16/14 07:25	08/19/14 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B01

Lab Sample ID: 500-82524-6

Date Collected: 08/15/14 13:15

Matrix: Solid

Date Received: 08/16/14 06:30

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	0.048	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Hexachlorocyclopentadiene	<0.81	*	0.81	0.23	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
2,4-Dinitrophenol	<0.81	*	0.81	0.71	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B01

Lab Sample ID: 500-82524-6

Date Collected: 08/15/14 13:15

Matrix: Solid

Date Received: 08/16/14 06:30

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	0.011	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	08/24/14 22:29	08/27/14 06:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		25 - 110	08/24/14 22:29	08/27/14 06:02	1
Phenol-d5	60		31 - 110	08/24/14 22:29	08/27/14 06:02	1
Nitrobenzene-d5	51		25 - 115	08/24/14 22:29	08/27/14 06:02	1
2-Fluorobiphenyl	49		25 - 119	08/24/14 22:29	08/27/14 06:02	1
2,4,6-Tribromophenol	55		35 - 137	08/24/14 22:29	08/27/14 06:02	1
Terphenyl-d14	62		36 - 134	08/24/14 22:29	08/27/14 06:02	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	☼	08/29/14 09:35	08/30/14 01:13	1
Arsenic	6.9		0.60	0.12	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Barium	33		0.60	0.064	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Beryllium	0.47		0.24	0.048	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Boron	5.4		3.0	0.60	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Cadmium	0.027 J		0.12	0.015	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Calcium	22000		12	3.2	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Chromium	17		0.60	0.069	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Cobalt	6.7		0.30	0.060	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Copper	18		0.60	0.12	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Iron	18000		12	4.9	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Lead	11		0.30	0.089	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Magnesium	16000		6.0	1.2	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Manganese	270		0.60	0.12	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Nickel	17		0.60	0.12	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Potassium	1600		30	1.8	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Sodium	540 B		60	8.0	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Thallium	0.76		0.60	0.25	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Vanadium	24		0.30	0.044	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	1
Zinc	44		1.2	0.24	mg/Kg	☼	08/29/14 09:35	08/30/14 01:13	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		08/29/14 09:15	08/29/14 20:58	1
Chromium	<0.025		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 20:58	1
Iron	0.21		0.20	0.20	mg/L		08/29/14 09:15	08/29/14 20:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B01

Lab Sample ID: 500-82524-6

Date Collected: 08/15/14 13:15

Matrix: Solid

Date Received: 08/16/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		08/29/14 09:15	08/29/14 20:58	1
Manganese	0.40		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 20:58	1
Nickel	<0.025		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 20:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.40	J	0.50	0.050	mg/L		08/26/14 10:20	08/26/14 20:27	1
Beryllium	0.0068		0.0040	0.0040	mg/L		08/26/14 10:20	08/26/14 20:27	1
Boron	0.13		0.10	0.050	mg/L		08/26/14 10:20	08/26/14 20:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 10:20	08/26/14 20:27	1
Chromium	0.19		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:27	1
Cobalt	0.059		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:27	1
Iron	260		0.20	0.20	mg/L		08/26/14 10:20	08/26/14 20:27	1
Lead	0.14		0.0075	0.0075	mg/L		08/26/14 10:20	08/26/14 20:27	1
Manganese	0.72		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:27	1
Nickel	0.19		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:27	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 10:20	08/26/14 20:27	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:27	1
Zinc	0.69		0.10	0.020	mg/L		08/26/14 10:20	08/26/14 20:27	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		08/29/14 09:15	08/29/14 16:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 10:20	08/26/14 20:27	1
Thallium	0.0034		0.0020	0.0020	mg/L		08/26/14 10:20	08/26/14 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00023		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 11:18	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	0.024		0.020	0.0079	mg/Kg	☼	08/29/14 12:00	09/02/14 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.26		0.200	0.200	SU			08/27/14 12:08	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B02

Lab Sample ID: 500-82524-7

Date Collected: 08/15/14 13:00

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
2-Butanone (MEK)	<0.0048		0.0048	0.0018	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Chloroform	<0.0048		0.0048	0.00056	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
1,1-Dichloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Ethylbenzene	<0.0048		0.0048	0.00098	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Toluene	<0.0048		0.0048	0.00068	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00087	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Vinyl acetate	<0.0048		0.0048	0.00076	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	08/16/14 07:25	08/19/14 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	08/16/14 07:25	08/19/14 17:13	1
Dibromofluoromethane	105		75 - 120	08/16/14 07:25	08/19/14 17:13	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	08/16/14 07:25	08/19/14 17:13	1
Toluene-d8 (Surr)	101		75 - 122	08/16/14 07:25	08/19/14 17:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.078	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B02

Lab Sample ID: 500-82524-7

Date Collected: 08/15/14 13:00

Matrix: Solid

Date Received: 08/16/14 06:30

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	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
4-Chloroaniline	<0.71		0.71	0.17	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Hexachlorocyclopentadiene	<0.71	*	0.71	0.20	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
2-Methylnaphthalene	<0.035		0.035	0.0065	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
2,4-Dinitrophenol	<0.71	*	0.71	0.62	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
4-Nitrophenol	<0.71		0.71	0.33	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Hexachlorobenzene	<0.071		0.071	0.0082	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.28	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Pyrene	<0.035		0.035	0.0070	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B02

Lab Sample ID: 500-82524-7

Date Collected: 08/15/14 13:00

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0096	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Benzo[b]fluoranthene	<0.035		0.035	0.0076	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Benzo[a]pyrene	<0.035		0.035	0.0068	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0091	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	08/24/14 22:29	08/27/14 06:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	08/24/14 22:29	08/27/14 06:23	1
Phenol-d5	60		31 - 110	08/24/14 22:29	08/27/14 06:23	1
Nitrobenzene-d5	48		25 - 115	08/24/14 22:29	08/27/14 06:23	1
2-Fluorobiphenyl	49		25 - 119	08/24/14 22:29	08/27/14 06:23	1
2,4,6-Tribromophenol	53		35 - 137	08/24/14 22:29	08/27/14 06:23	1
Terphenyl-d14	62		36 - 134	08/24/14 22:29	08/27/14 06:23	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	☼	08/29/14 09:35	08/30/14 01:35	1
Arsenic	4.3		0.52	0.10	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Barium	35		0.52	0.056	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Beryllium	0.45		0.21	0.042	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Boron	8.0		2.6	0.52	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Cadmium	0.25		0.10	0.013	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Calcium	100000		100	28	mg/Kg	☼	08/29/14 09:35	09/02/14 10:44	10
Chromium	14		0.52	0.060	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Cobalt	7.6		0.26	0.052	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Copper	17		0.52	0.10	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Iron	14000		10	4.3	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Lead	8.5		0.26	0.077	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Magnesium	42000		5.2	1.1	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Manganese	320		0.52	0.10	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Nickel	19		0.52	0.10	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Potassium	2500		26	1.6	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Selenium	<0.52		0.52	0.18	mg/Kg	☼	08/29/14 09:35	08/30/14 22:52	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Sodium	420 B		52	7.0	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Thallium	0.73		0.52	0.22	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Vanadium	15		0.26	0.038	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	1
Zinc	35		1.0	0.21	mg/Kg	☼	08/29/14 09:35	08/30/14 01:35	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		08/29/14 09:15	08/29/14 21:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/29/14 09:15	08/29/14 21:05	1
Manganese	0.51		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 21:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B02

Lab Sample ID: 500-82524-7

Date Collected: 08/15/14 13:00

Matrix: Solid

Date Received: 08/16/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.24	J	0.50	0.050	mg/L		08/26/14 10:20	08/26/14 20:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 10:20	08/26/14 20:32	1
Boron	0.43		0.10	0.050	mg/L		08/26/14 10:20	08/26/14 20:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 10:20	08/26/14 20:32	1
Chromium	0.051		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:32	1
Cobalt	0.014	J	0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:32	1
Iron	47		0.20	0.20	mg/L		08/26/14 10:20	08/26/14 20:32	1
Lead	0.033		0.0075	0.0075	mg/L		08/26/14 10:20	08/26/14 20:32	1
Manganese	0.21		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:32	1
Nickel	0.053		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:32	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 10:20	08/26/14 20:32	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:32	1
Zinc	0.19		0.10	0.020	mg/L		08/26/14 10:20	08/26/14 20:32	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		08/26/14 10:20	08/26/14 20:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 10:20	08/26/14 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 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	0.020		0.017	0.0066	mg/Kg	☆	08/29/14 12:00	09/02/14 10:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.56		0.200	0.200	SU			08/27/14 12:21	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B03

Lab Sample ID: 500-82524-8

Date Collected: 08/15/14 12:50

Matrix: Solid

Date Received: 08/16/14 06:30

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	0.0018	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Benzene	<0.0043		0.0043	0.00058	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Bromoform	<0.0043		0.0043	0.00098	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Chlorobenzene	<0.0043		0.0043	0.00043	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Dibromochloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
1,1-Dichloroethane	<0.0043		0.0043	0.00067	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
1,1-Dichloroethene	<0.0043		0.0043	0.00069	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Ethylbenzene	<0.0043		0.0043	0.00086	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00070	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00086	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Tetrachloroethene	<0.0043		0.0043	0.00065	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00076	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Trichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Vinyl acetate	<0.0043		0.0043	0.00067	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1
Xylenes, Total	<0.0085		0.0085	0.00039	mg/Kg	☼	08/16/14 07:25	08/19/14 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	08/16/14 07:25	08/19/14 17:36	1
Dibromofluoromethane	105		75 - 120	08/16/14 07:25	08/19/14 17:36	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	08/16/14 07:25	08/19/14 17:36	1
Toluene-d8 (Surr)	99		75 - 122	08/16/14 07:25	08/19/14 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B03

Lab Sample ID: 500-82524-8

Date Collected: 08/15/14 12:50

Matrix: Solid

Date Received: 08/16/14 06:30

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	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Hexachlorocyclopentadiene	<0.72	*	0.72	0.21	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
2,4-Dinitrophenol	<0.72	*	0.72	0.63	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Acenaphthylene	<0.036		0.036	0.0047	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Fluorene	<0.036		0.036	0.0050	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Pentachlorophenol	<0.72		0.72	0.58	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Carbazole	<0.18		0.18	0.093	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Pyrene	<0.036		0.036	0.0071	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Benzo[a]anthracene	<0.036		0.036	0.0048	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B03

Lab Sample ID: 500-82524-8

Date Collected: 08/15/14 12:50

Matrix: Solid

Date Received: 08/16/14 06:30

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	0.0098	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Benzo[b]fluoranthene	<0.036		0.036	0.0077	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Benzo[a]pyrene	<0.036		0.036	0.0069	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0069	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	08/24/14 22:29	08/27/14 06:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	44		25 - 110				08/24/14 22:29	08/27/14 06:45	1
Phenol-d5	49		31 - 110				08/24/14 22:29	08/27/14 06:45	1
Nitrobenzene-d5	42		25 - 115				08/24/14 22:29	08/27/14 06:45	1
2-Fluorobiphenyl	40		25 - 119				08/24/14 22:29	08/27/14 06:45	1
2,4,6-Tribromophenol	30	X	35 - 137				08/24/14 22:29	08/27/14 06:45	1
Terphenyl-d14	47		36 - 134				08/24/14 22:29	08/27/14 06:45	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	☼	08/29/14 09:35	08/30/14 01:42	1
Arsenic	5.2		0.56	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Barium	34		0.56	0.060	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Beryllium	0.48		0.22	0.045	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Boron	10		2.8	0.56	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Cadmium	0.12		0.11	0.014	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Calcium	54000		11	3.0	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Chromium	14		0.56	0.065	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Cobalt	7.7		0.28	0.056	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Copper	16		0.56	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Iron	14000		11	4.6	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Lead	6.9		0.28	0.083	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Magnesium	25000		5.6	1.2	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Manganese	290		0.56	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Nickel	17		0.56	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Potassium	2600		28	1.7	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Sodium	280	B	56	7.5	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Thallium	0.76		0.56	0.24	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Vanadium	17		0.28	0.041	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	1
Zinc	31		1.1	0.23	mg/Kg	☼	08/29/14 09:35	08/30/14 01:42	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		08/29/14 09:15	08/29/14 21:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/29/14 09:15	08/29/14 21:11	1
Manganese	0.60		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 21:11	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B03

Lab Sample ID: 500-82524-8

Date Collected: 08/15/14 12:50

Matrix: Solid

Date Received: 08/16/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27	J	0.50	0.050	mg/L		08/26/14 10:20	08/26/14 20:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 10:20	08/26/14 20:36	1
Boron	0.47		0.10	0.050	mg/L		08/26/14 10:20	08/26/14 20:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 10:20	08/26/14 20:36	1
Chromium	0.048		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:36	1
Cobalt	0.012	J	0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:36	1
Iron	41		0.20	0.20	mg/L		08/26/14 10:20	08/26/14 20:36	1
Lead	0.029		0.0075	0.0075	mg/L		08/26/14 10:20	08/26/14 20:36	1
Manganese	0.27		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:36	1
Nickel	0.048		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:36	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 10:20	08/26/14 20:36	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:36	1
Zinc	0.17		0.10	0.020	mg/L		08/26/14 10:20	08/26/14 20:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 10:20	08/26/14 20:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 10:20	08/26/14 20:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 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	0.011	J	0.017	0.0066	mg/Kg	✱	08/29/14 12:00	09/02/14 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.69		0.200	0.200	SU			08/27/14 12:27	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B04

Lab Sample ID: 500-82524-9

Date Collected: 08/15/14 12:40

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Vinyl acetate	<0.0048		0.0048	0.00075	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	08/16/14 07:25	08/19/14 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	08/16/14 07:25	08/19/14 17:59	1
Dibromofluoromethane	106		75 - 120	08/16/14 07:25	08/19/14 17:59	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	08/16/14 07:25	08/19/14 17:59	1
Toluene-d8 (Surr)	96		75 - 122	08/16/14 07:25	08/19/14 17:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B04

Lab Sample ID: 500-82524-9

Date Collected: 08/15/14 12:40

Matrix: Solid

Date Received: 08/16/14 06:30

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	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Hexachlorocyclopentadiene	<0.76	*	0.76	0.22	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
2,4-Dinitrophenol	<0.76	*	0.76	0.66	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B04

Lab Sample ID: 500-82524-9

Date Collected: 08/15/14 12:40

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	08/24/14 22:29	08/27/14 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		25 - 110	08/24/14 22:29	08/27/14 15:52	1
Phenol-d5	57		31 - 110	08/24/14 22:29	08/27/14 15:52	1
Nitrobenzene-d5	40		25 - 115	08/24/14 22:29	08/27/14 15:52	1
2-Fluorobiphenyl	46		25 - 119	08/24/14 22:29	08/27/14 15:52	1
2,4,6-Tribromophenol	51		35 - 137	08/24/14 22:29	08/27/14 15:52	1
Terphenyl-d14	82		36 - 134	08/24/14 22:29	08/27/14 15:52	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	☼	08/29/14 09:35	08/30/14 01:48	1
Arsenic	5.7		0.59	0.12	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Barium	99		0.59	0.063	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Beryllium	0.92		0.23	0.047	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Boron	3.6		2.9	0.59	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Cadmium	<0.12		0.12	0.015	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Calcium	2500		12	3.2	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Chromium	25		0.59	0.068	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Cobalt	9.9		0.29	0.059	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Copper	23		0.59	0.12	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Iron	22000		12	4.8	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Lead	12		0.29	0.087	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Magnesium	4600		5.9	1.2	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Manganese	410		0.59	0.12	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Nickel	26		0.59	0.12	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Potassium	2100		29	1.8	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Sodium	410 B		59	7.9	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Thallium	0.90		0.59	0.25	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Vanadium	36		0.29	0.043	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	1
Zinc	49		1.2	0.24	mg/Kg	☼	08/29/14 09:35	08/30/14 01:48	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		08/29/14 09:15	08/29/14 21:33	1
Chromium	<0.025		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 21:33	1
Iron	0.23		0.20	0.20	mg/L		08/29/14 09:15	08/29/14 21:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B04

Lab Sample ID: 500-82524-9

Date Collected: 08/15/14 12:40

Matrix: Solid

Date Received: 08/16/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		08/29/14 09:15	08/29/14 21:33	1
Manganese	0.012	J	0.025	0.010	mg/L		08/29/14 09:15	08/29/14 21:33	1
Nickel	<0.025		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 21:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J	0.50	0.050	mg/L		08/26/14 10:20	08/26/14 20:40	1
Beryllium	0.0056		0.0040	0.0040	mg/L		08/26/14 10:20	08/26/14 20:40	1
Boron	0.10		0.10	0.050	mg/L		08/26/14 10:20	08/26/14 20:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 10:20	08/26/14 20:40	1
Chromium	0.13		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:40	1
Cobalt	0.023	J	0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:40	1
Iron	120		0.20	0.20	mg/L		08/26/14 10:20	08/26/14 20:40	1
Lead	0.063		0.0075	0.0075	mg/L		08/26/14 10:20	08/26/14 20:40	1
Manganese	0.52		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:40	1
Nickel	0.11		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:40	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 10:20	08/26/14 20:40	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:40	1
Zinc	0.23		0.10	0.020	mg/L		08/26/14 10:20	08/26/14 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	0.0060	mg/L		08/26/14 10:20	08/26/14 20:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 10:20	08/26/14 20:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00032		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 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		0.017	0.0068	mg/Kg	☼	08/29/14 12:00	09/02/14 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.98		0.200	0.200	SU			08/27/14 12:34	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B06

Lab Sample ID: 500-82524-11

Date Collected: 08/15/14 12:05

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.021		0.0043	0.0019	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
1,1,1-Dichloroethane	<0.0043		0.0043	0.00070	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	08/16/14 07:25	08/19/14 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	08/16/14 07:25	08/19/14 18:45	1
Dibromofluoromethane	103		75 - 120	08/16/14 07:25	08/19/14 18:45	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	08/16/14 07:25	08/19/14 18:45	1
Toluene-d8 (Surr)	97		75 - 122	08/16/14 07:25	08/19/14 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B06

Lab Sample ID: 500-82524-11

Date Collected: 08/15/14 12:05

Matrix: Solid

Date Received: 08/16/14 06:30

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	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Hexachlorocyclopentadiene	<0.72	*	0.72	0.21	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
2,4-Dinitrophenol	<0.72	*	0.72	0.63	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Acenaphthylene	<0.036		0.036	0.0047	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Acenaphthene	<0.036		0.036	0.0064	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Fluorene	<0.036		0.036	0.0050	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Pentachlorophenol	<0.72		0.72	0.58	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Carbazole	<0.18		0.18	0.093	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Pyrene	<0.036		0.036	0.0071	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Benzo[a]anthracene	<0.036		0.036	0.0048	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B06

Lab Sample ID: 500-82524-11

Date Collected: 08/15/14 12:05

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0098	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Benzo[b]fluoranthene	<0.036		0.036	0.0077	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Benzo[a]pyrene	<0.036		0.036	0.0069	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0069	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	08/24/14 22:29	08/27/14 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	48		25 - 110	08/24/14 22:29	08/27/14 18:35	1
Phenol-d5	51		31 - 110	08/24/14 22:29	08/27/14 18:35	1
Nitrobenzene-d5	37		25 - 115	08/24/14 22:29	08/27/14 18:35	1
2-Fluorobiphenyl	43		25 - 119	08/24/14 22:29	08/27/14 18:35	1
2,4,6-Tribromophenol	47		35 - 137	08/24/14 22:29	08/27/14 18:35	1
Terphenyl-d14	80		36 - 134	08/24/14 22:29	08/27/14 18:35	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	☼	08/29/14 09:35	08/30/14 02:01	1
Arsenic	11		0.52	0.10	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Barium	30		0.52	0.056	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Beryllium	0.47		0.21	0.042	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Boron	7.5		2.6	0.52	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Cadmium	0.37		0.10	0.013	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Calcium	46000		10	2.8	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Chromium	14		0.52	0.060	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Cobalt	8.6		0.26	0.052	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Copper	29		0.52	0.10	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Iron	24000		10	4.3	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Lead	15		0.26	0.078	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Magnesium	31000		5.2	1.1	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Manganese	560		0.52	0.10	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Nickel	22		0.52	0.10	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Potassium	2000		26	1.6	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Selenium	0.44 J		0.52	0.18	mg/Kg	☼	08/29/14 09:35	08/30/14 23:13	1
Silver	0.039 J		0.26	0.019	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Sodium	1100 B		52	7.0	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Thallium	1.2		0.52	0.22	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Vanadium	18		0.26	0.039	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	1
Zinc	79		1.0	0.21	mg/Kg	☼	08/29/14 09:35	08/30/14 02:01	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		08/29/14 09:15	08/29/14 21:46	1
Chromium	<0.025		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 21:46	1
Iron	<0.20		0.20	0.20	mg/L		08/29/14 09:15	08/29/14 21:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Client Sample ID: 2143V-9-B06

Lab Sample ID: 500-82524-11

Date Collected: 08/15/14 12:05

Matrix: Solid

Date Received: 08/16/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		08/29/14 09:15	08/29/14 21:46	1
Manganese	0.47		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 21:46	1
Nickel	<0.025		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 21:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.32	J	0.50	0.050	mg/L		08/26/14 10:20	08/26/14 20:57	1
Beryllium	0.0049		0.0040	0.0040	mg/L		08/26/14 10:20	08/26/14 20:57	1
Boron	0.16		0.10	0.050	mg/L		08/26/14 10:20	08/26/14 20:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 10:20	08/26/14 20:57	1
Chromium	0.12		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:57	1
Cobalt	0.037		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:57	1
Iron	140		0.20	0.20	mg/L		08/26/14 10:20	08/26/14 20:57	1
Lead	0.078		0.0075	0.0075	mg/L		08/26/14 10:20	08/26/14 20:57	1
Manganese	0.85		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:57	1
Nickel	0.14		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:57	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 10:20	08/26/14 20:57	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 20:57	1
Zinc	0.47		0.10	0.020	mg/L		08/26/14 10:20	08/26/14 20:57	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		08/29/14 09:15	08/29/14 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 10:20	08/26/14 20:55	1
Thallium	0.0033		0.0020	0.0020	mg/L		08/26/14 10:20	08/26/14 20:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00021		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 11:32	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	0.034		0.017	0.0066	mg/Kg	☼	08/29/14 12:00	09/02/14 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.79		0.200	0.200	SU			08/27/14 12:47	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-4

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable 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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: <u>IL 59 Outreach, Bebe Co.</u>	COC No.: <u>1</u> of <u>1</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project No.: <u>IDOT 2013-089</u>	Lab Job No.: <u>500-82524</u>
		TAT: <input checked="" type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Sample Temp:
		Sampler: <u>CN/cw</u>	

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments																		
6	2143 V-9- B01	8/15	1:15	S	X	X					X	X	X	X		0-5																		
7	2143 V-9- B02		1:00	S	X	X					X	X	X	X																				
8	2143 V-9- B03		12:50	S	X	X					X	X	X	X																				
9	2143 V-9- B04		12:10	S	X	X					X	X	X	X																				
10	2143 V-9- B05		12:20	S	X	X					X	X	X	X																				
11	2143 V-9- B06		12:05	S	X	X					X	X	X	X																				
<table style="width: 100%; border: none;"> <tr> <td style="width: 20%; border: none;">Relinquished by:</td> <td style="width: 20%; border: none;"></td> <td style="width: 20%; border: none;">Date/Time: <u>8/15/14 3:20</u></td> <td style="width: 20%; border: none;">Received by:</td> <td style="width: 20%; border: none;"></td> <td style="width: 20%; border: none;">Date/Time: <u>8/15/14 1531</u></td> </tr> <tr> <td style="border: none;">Relinquished by:</td> <td style="border: none;"></td> <td style="border: none;">Date/Time: <u>8/15/14 1048</u></td> <td style="border: none;">Received by:</td> <td style="border: none;"></td> <td style="border: none;">Date/Time: <u>8/16/14 0630</u></td> </tr> <tr> <td style="border: none;">Relinquished by:</td> <td style="border: none;"></td> <td style="border: none;">Date/Time:</td> <td style="border: none;">Received by:</td> <td style="border: none;"></td> <td style="border: none;">Date/Time:</td> </tr> </table>																	Relinquished by:		Date/Time: <u>8/15/14 3:20</u>	Received by:		Date/Time: <u>8/15/14 1531</u>	Relinquished by:		Date/Time: <u>8/15/14 1048</u>	Received by:		Date/Time: <u>8/16/14 0630</u>	Relinquished by:		Date/Time:	Received by:		Date/Time:
Relinquished by:		Date/Time: <u>8/15/14 3:20</u>	Received by:		Date/Time: <u>8/15/14 1531</u>																													
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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 104 (IL 59) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
38923-38971 N. IL 59; 24557-24765 W. Petite Lake Road

City: Unincorporated State: IL Zip Code: 60046

County: Lake Township: Lake Villa

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

Latitude: 42.42982 Longitude: -88.11780
(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 104 (IL 59)

Latitude: 42.42982 Longitude: -88.11780

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 2143V-12-B01, -B02, -B03, -B06, -B07 AND -B08 WERE SAMPLED ADJACENT TO ISGS SITE 2143V-12. SEE FIGURES 3 AND 5 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]:

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID: 500-82524-5

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

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

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

Company Name: IDOT Bureau of Design and Environment

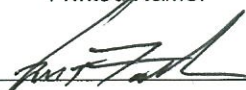
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Kurt T. Fischer

Printed Name:



11/5/14

Date:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:



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.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2143V-12

Residences

Sample ID	2143V-12-B01	2143V-12-B02	2143V-12-B03						
Sample Depth (ft)	0-8.5	0-3	0-8.5						
Sample Date	8/15/2014	8/15/2014	8/15/2014						
PID	0	0	0						
Sample pH	8.39	8.69	8.23						
Matrix	Soil	Soil	Soil						
No Contaminants of Concern Noted.									

Sample ID	2143V-12-B06	2143V-12-B07	2143V-12-B08						
Sample Depth (ft)	0-8.5	0-8.5	0-8.5						
Sample Date	8/15/2014	8/15/2014	8/15/2014						
PID	0	0	0						
Sample pH	8.49	8.46	7.47						
Matrix	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: 500-82524-5
Client Project/Site: IDOT - IL 59 - WO 089

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

Attn: Ms. Colleen Grey



Authorized for release by:
9/2/2014 6:52:01 PM

Richard Wright, Senior Project Manager
(708)534-5200
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 - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B01

Lab Sample ID: 500-82524-12

Date Collected: 08/15/14 14:00

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0076		0.0046	0.0020	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Benzene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Carbon tetrachloride	<0.0046		0.0046	0.00085	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Chloromethane	<0.0046		0.0046	0.00098	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Dibromochloromethane	<0.0046		0.0046	0.00081	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
1,1-Dichloroethane	<0.0046		0.0046	0.00074	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
1,1-Dichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
1,2-Dichloropropane	<0.0046		0.0046	0.00071	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Ethylbenzene	<0.0046		0.0046	0.00094	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00077	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Trichloroethene	<0.0046		0.0046	0.00077	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Vinyl acetate	<0.0046		0.0046	0.00073	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Vinyl chloride	<0.0046		0.0046	0.00098	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	08/16/14 07:25	08/19/14 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	08/16/14 07:25	08/19/14 19:08	1
Dibromofluoromethane	108		75 - 120	08/16/14 07:25	08/19/14 19:08	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	08/16/14 07:25	08/19/14 19:08	1
Toluene-d8 (Surr)	96		75 - 122	08/16/14 07:25	08/19/14 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B01

Lab Sample ID: 500-82524-12

Date Collected: 08/15/14 14:00

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 82.8

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	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Hexachlorocyclopentadiene	<0.80	*	0.80	0.23	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B01

Lab Sample ID: 500-82524-12

Date Collected: 08/15/14 14:00

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	08/24/14 22:29	08/27/14 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110	08/24/14 22:29	08/27/14 16:32	1
Phenol-d5	56		31 - 110	08/24/14 22:29	08/27/14 16:32	1
Nitrobenzene-d5	41		25 - 115	08/24/14 22:29	08/27/14 16:32	1
2-Fluorobiphenyl	47		25 - 119	08/24/14 22:29	08/27/14 16:32	1
2,4,6-Tribromophenol	35		35 - 137	08/24/14 22:29	08/27/14 16:32	1
Terphenyl-d14	77		36 - 134	08/24/14 22:29	08/27/14 16:32	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	☼	08/29/14 09:35	08/30/14 02:07	1
Arsenic	7.0		0.56	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Barium	42		0.56	0.060	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Beryllium	0.53		0.23	0.045	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Boron	9.7		2.8	0.56	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Cadmium	0.27		0.11	0.014	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Calcium	28000		11	3.1	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Chromium	18		0.56	0.065	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Cobalt	9.3		0.28	0.056	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Copper	26		0.56	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Iron	25000		11	4.6	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Lead	12		0.28	0.084	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Magnesium	20000		5.6	1.2	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Manganese	660		0.56	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Nickel	25		0.56	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Potassium	2700		28	1.7	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Selenium	0.42 J		0.56	0.20	mg/Kg	☼	08/29/14 09:35	08/30/14 23:18	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Sodium	450 B		56	7.5	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Thallium	1.4		0.56	0.24	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Vanadium	25		0.28	0.042	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	1
Zinc	66		1.1	0.23	mg/Kg	☼	08/29/14 09:35	08/30/14 02:07	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		08/29/14 09:15	08/29/14 21:52	1
Chromium	<0.025		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 21:52	1
Iron	<0.20		0.20	0.20	mg/L		08/29/14 09:15	08/29/14 21:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B01

Lab Sample ID: 500-82524-12

Date Collected: 08/15/14 14:00

Matrix: Solid

Date Received: 08/16/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		08/29/14 09:15	08/29/14 21:52	1
Manganese	0.083		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 21:52	1
Nickel	<0.025		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 21:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.34	J	0.50	0.050	mg/L		08/26/14 10:20	08/26/14 21:01	1
Beryllium	0.0053		0.0040	0.0040	mg/L		08/26/14 10:20	08/26/14 21:01	1
Boron	0.14		0.10	0.050	mg/L		08/26/14 10:20	08/26/14 21:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 10:20	08/26/14 21:01	1
Chromium	0.14		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:01	1
Cobalt	0.039		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:01	1
Iron	210		0.20	0.20	mg/L		08/26/14 10:20	08/26/14 21:01	1
Lead	0.094		0.0075	0.0075	mg/L		08/26/14 10:20	08/26/14 21:01	1
Manganese	0.88		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:01	1
Nickel	0.15		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:01	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 10:20	08/26/14 21:01	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:01	1
Zinc	0.60		0.10	0.020	mg/L		08/26/14 10:20	08/26/14 21:01	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		08/29/14 09:15	08/29/14 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 10:20	08/26/14 20:59	1
Thallium	0.0027		0.0020	0.0020	mg/L		08/26/14 10:20	08/26/14 20:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00061		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 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	0.028		0.018	0.0071	mg/Kg	☼	08/29/14 12:00	09/02/14 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.39		0.200	0.200	SU			08/27/14 12:53	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B02

Lab Sample ID: 500-82524-13

Date Collected: 08/15/14 14:15

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Bromodichloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00080	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00061	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	08/16/14 07:25	08/19/14 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	08/16/14 07:25	08/19/14 19:30	1
Dibromofluoromethane	106		75 - 120	08/16/14 07:25	08/19/14 19:30	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/16/14 07:25	08/19/14 19:30	1
Toluene-d8 (Surr)	101		75 - 122	08/16/14 07:25	08/19/14 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B02

Lab Sample ID: 500-82524-13

Date Collected: 08/15/14 14:15

Matrix: Solid

Date Received: 08/16/14 06:30

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	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Hexachlorocyclopentadiene	<0.76	*	0.76	0.22	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
2,4-Dinitrophenol	<0.76	*	0.76	0.67	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.30	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Phenanthrene	0.0080	J	0.038	0.0053	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B02

Lab Sample ID: 500-82524-13

Date Collected: 08/15/14 14:15

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	08/24/14 22:29	08/27/14 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	45		25 - 110	08/24/14 22:29	08/27/14 18:56	1
Phenol-d5	45		31 - 110	08/24/14 22:29	08/27/14 18:56	1
Nitrobenzene-d5	34		25 - 115	08/24/14 22:29	08/27/14 18:56	1
2-Fluorobiphenyl	41		25 - 119	08/24/14 22:29	08/27/14 18:56	1
2,4,6-Tribromophenol	49		35 - 137	08/24/14 22:29	08/27/14 18:56	1
Terphenyl-d14	67		36 - 134	08/24/14 22:29	08/27/14 18:56	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	☼	08/29/14 09:35	08/30/14 02:14	1
Arsenic	10		0.56	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Barium	48		0.56	0.060	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Beryllium	0.48		0.23	0.045	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Boron	9.1		2.8	0.56	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Cadmium	0.21		0.11	0.014	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Calcium	43000		11	3.0	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Chromium	16		0.56	0.065	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Cobalt	8.1		0.28	0.056	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Copper	23		0.56	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Iron	22000		11	4.6	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Lead	12		0.28	0.084	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Magnesium	26000		5.6	1.2	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Manganese	570		0.56	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Nickel	22		0.56	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Potassium	2700		28	1.7	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Selenium	0.44 J		0.56	0.20	mg/Kg	☼	08/29/14 09:35	08/30/14 23:23	1
Silver	0.021 J		0.28	0.020	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Sodium	720 B		56	7.5	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Thallium	1.3		0.56	0.24	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Vanadium	19		0.28	0.042	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	1
Zinc	63		1.1	0.23	mg/Kg	☼	08/29/14 09:35	08/30/14 02:14	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		08/29/14 09:15	08/29/14 21:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/29/14 09:15	08/29/14 21:59	1
Manganese	0.028		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 21:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B02

Lab Sample ID: 500-82524-13

Date Collected: 08/15/14 14:15

Matrix: Solid

Date Received: 08/16/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J	0.50	0.050	mg/L		08/26/14 10:20	08/26/14 21:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 10:20	08/26/14 21:05	1
Boron	0.61		0.10	0.050	mg/L		08/26/14 10:20	08/26/14 21:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 10:20	08/26/14 21:05	1
Chromium	0.094		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:05	1
Cobalt	0.026		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:05	1
Iron	92		0.20	0.20	mg/L		08/26/14 10:20	08/26/14 21:05	1
Lead	0.069		0.0075	0.0075	mg/L		08/26/14 10:20	08/26/14 21:05	1
Manganese	0.53		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:05	1
Nickel	0.099		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:05	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 10:20	08/26/14 21:05	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:05	1
Zinc	0.37		0.10	0.020	mg/L		08/26/14 10:20	08/26/14 21:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 10:20	08/26/14 21:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 10:20	08/26/14 21:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 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	0.024		0.017	0.0068	mg/Kg	✱	08/29/14 12:00	09/02/14 11:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.69		0.200	0.200	SU			08/27/14 12:59	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B03

Lab Sample ID: 500-82524-14

Date Collected: 08/15/14 14:30

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 90.0

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	☼	08/16/14 07:25	08/19/14 19:53	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
1,1,1-Dichloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
1,2-Dichloropropane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Ethylbenzene	<0.0044		0.0044	0.00088	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
1,1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00088	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00078	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1
Xylenes, Total	<0.0087		0.0087	0.00040	mg/Kg	☼	08/16/14 07:25	08/19/14 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	08/16/14 07:25	08/19/14 19:53	1
Dibromofluoromethane	107		75 - 120	08/16/14 07:25	08/19/14 19:53	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	08/16/14 07:25	08/19/14 19:53	1
Toluene-d8 (Surr)	101		75 - 122	08/16/14 07:25	08/19/14 19:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B03

Lab Sample ID: 500-82524-14

Date Collected: 08/15/14 14:30

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 90.0

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	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Hexachlorocyclopentadiene	<0.73	*	0.73	0.21	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
2,4-Dinitrophenol	<0.73	*	0.73	0.64	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Carbazole	<0.18		0.18	0.093	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B03

Lab Sample ID: 500-82524-14

Date Collected: 08/15/14 14:30

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0098	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	08/24/14 22:29	08/27/14 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		25 - 110				08/24/14 22:29	08/27/14 16:53	1
Phenol-d5	59		31 - 110				08/24/14 22:29	08/27/14 16:53	1
Nitrobenzene-d5	42		25 - 115				08/24/14 22:29	08/27/14 16:53	1
2-Fluorobiphenyl	48		25 - 119				08/24/14 22:29	08/27/14 16:53	1
2,4,6-Tribromophenol	58		35 - 137				08/24/14 22:29	08/27/14 16:53	1
Terphenyl-d14	86		36 - 134				08/24/14 22:29	08/27/14 16:53	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	☼	08/29/14 09:35	08/30/14 02:20	1
Arsenic	6.1		0.53	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Barium	38		0.53	0.057	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Beryllium	0.51		0.21	0.042	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Boron	9.9		2.6	0.53	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Cadmium	0.20		0.11	0.013	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Calcium	82000		110	29	mg/Kg	☼	08/29/14 09:35	09/02/14 13:59	10
Chromium	15		0.53	0.061	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Cobalt	8.1		0.26	0.053	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Copper	21		0.53	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Iron	17000		11	4.3	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Lead	9.1		0.26	0.079	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Magnesium	34000		5.3	1.1	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Manganese	420		0.53	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Nickel	22		0.53	0.11	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Potassium	2900		26	1.6	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Selenium	0.26 J		0.53	0.19	mg/Kg	☼	08/29/14 09:35	08/30/14 23:28	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Sodium	340 B		53	7.1	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Thallium	0.90		0.53	0.22	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Vanadium	19		0.26	0.039	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1
Zinc	41		1.1	0.21	mg/Kg	☼	08/29/14 09:35	08/30/14 02:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.14 J		0.50	0.050	mg/L		08/26/14 10:20	08/26/14 21:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 10:20	08/26/14 21:09	1
Boron	0.49		0.10	0.050	mg/L		08/26/14 10:20	08/26/14 21:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B03

Lab Sample ID: 500-82524-14

Date Collected: 08/15/14 14:30

Matrix: Solid

Date Received: 08/16/14 06:30

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		08/26/14 10:20	08/26/14 21:09	1
Chromium	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:09	1
Cobalt	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:09	1
Iron	2.5		0.20	0.20	mg/L		08/26/14 10:20	08/26/14 21:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/26/14 10:20	08/26/14 21:09	1
Manganese	0.033		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:09	1
Nickel	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:09	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 10:20	08/26/14 21:09	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:09	1
Zinc	0.084	J	0.10	0.020	mg/L		08/26/14 10:20	08/26/14 21:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 10:20	08/26/14 21:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 10:20	08/26/14 21:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 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	0.021		0.018	0.0071	mg/Kg	☆	08/29/14 12:00	09/02/14 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.23		0.200	0.200	SU			08/27/14 13:06	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B06

Lab Sample ID: 500-82524-17

Date Collected: 08/15/14 09:35

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 85.5

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	☼	08/16/14 07:25	08/20/14 13:02	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Bromodichloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Bromoform	<0.0042		0.0042	0.00097	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Carbon tetrachloride	<0.0042		0.0042	0.00077	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00060	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00068	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00070	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	08/16/14 07:25	08/20/14 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	08/16/14 07:25	08/20/14 13:02	1
Dibromofluoromethane	102		75 - 120	08/16/14 07:25	08/20/14 13:02	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	08/16/14 07:25	08/20/14 13:02	1
Toluene-d8 (Surr)	99		75 - 122	08/16/14 07:25	08/20/14 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B06

Lab Sample ID: 500-82524-17

Date Collected: 08/15/14 09:35

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 85.5

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	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Hexachlorocyclopentadiene	<0.77	*	0.77	0.22	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B06

Lab Sample ID: 500-82524-17

Date Collected: 08/15/14 09:35

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	08/24/14 22:29	08/27/14 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	37		25 - 110				08/24/14 22:29	08/27/14 17:54	1
Phenol-d5	40		31 - 110				08/24/14 22:29	08/27/14 17:54	1
Nitrobenzene-d5	29		25 - 115				08/24/14 22:29	08/27/14 17:54	1
2-Fluorobiphenyl	33		25 - 119				08/24/14 22:29	08/27/14 17:54	1
2,4,6-Tribromophenol	47		35 - 137				08/24/14 22:29	08/27/14 17:54	1
Terphenyl-d14	59		36 - 134				08/24/14 22:29	08/27/14 17:54	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	☼	08/29/14 09:55	08/29/14 20:00	1
Arsenic	7.3		0.54	0.11	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Barium	34		0.54	0.057	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Beryllium	0.46		0.21	0.043	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Boron	5.6		2.7	0.54	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Cadmium	0.14		0.11	0.014	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Calcium	60000		54	15	mg/Kg	☼	08/29/14 09:55	08/30/14 14:46	5
Chromium	11		0.54	0.062	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Cobalt	9.1		0.27	0.054	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Copper	21		0.54	0.11	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Iron	17000		11	4.4	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Lead	12		0.27	0.080	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Magnesium	29000		5.4	1.1	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Manganese	500		0.54	0.11	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Nickel	24		0.54	0.11	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Potassium	1300		27	1.6	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Selenium	0.38 J		0.54	0.19	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Silver	0.045 J B		0.27	0.019	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Sodium	170 B		54	7.2	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Thallium	<0.54		0.54	0.23	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Vanadium	15		0.27	0.040	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	1
Zinc	64		1.1	0.22	mg/Kg	☼	08/29/14 09:55	08/29/14 20:00	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		08/29/14 09:15	08/29/14 22:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/29/14 09:15	08/29/14 22:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B06

Lab Sample ID: 500-82524-17

Date Collected: 08/15/14 09:35

Matrix: Solid

Date Received: 08/16/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.14	J	0.50	0.050	mg/L		08/26/14 10:20	08/26/14 21:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 10:20	08/26/14 21:20	1
Boron	0.090	J	0.10	0.050	mg/L		08/26/14 10:20	08/26/14 21:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 10:20	08/26/14 21:20	1
Chromium	0.040		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:20	1
Cobalt	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:20	1
Iron	41		0.20	0.20	mg/L		08/26/14 10:20	08/26/14 21:20	1
Lead	0.020		0.0075	0.0075	mg/L		08/26/14 10:20	08/26/14 21:20	1
Manganese	0.15		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:20	1
Nickel	0.039		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:20	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 10:20	08/26/14 21:20	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:20	1
Zinc	0.13		0.10	0.020	mg/L		08/26/14 10:20	08/26/14 21:20	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		08/26/14 10:20	08/26/14 21:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 10:20	08/26/14 21:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 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	0.020		0.018	0.0070	mg/Kg	✱	08/29/14 12:00	09/02/14 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.49		0.200	0.200	SU			08/27/14 13:25	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B07

Lab Sample ID: 500-82524-18

Date Collected: 08/15/14 09:55

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0069		0.0040	0.0017	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Bromodichloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Bromoform	<0.0040		0.0040	0.00093	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
2-Butanone (MEK)	<0.0040		0.0040	0.0015	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Chloromethane	<0.0040		0.0040	0.00085	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00053	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
1,1-Dichloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
1,1-Dichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00053	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Ethylbenzene	<0.0040		0.0040	0.00081	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0011	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00066	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Styrene	<0.0040		0.0040	0.00053	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
1,1,1,2-Tetrachloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Tetrachloroethene	<0.0040		0.0040	0.00061	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00055	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Trichloroethene	<0.0040		0.0040	0.00066	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Vinyl chloride	<0.0040		0.0040	0.00085	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1
Xylenes, Total	<0.0080		0.0080	0.00036	mg/Kg	☼	08/16/14 07:25	08/20/14 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	08/16/14 07:25	08/20/14 13:25	1
Dibromofluoromethane	102		75 - 120	08/16/14 07:25	08/20/14 13:25	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/16/14 07:25	08/20/14 13:25	1
Toluene-d8 (Surr)	97		75 - 122	08/16/14 07:25	08/20/14 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B07

Lab Sample ID: 500-82524-18

Date Collected: 08/15/14 09:55

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 82.8

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	0.048	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Hexachlorocyclopentadiene	<0.81	*	0.81	0.23	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
2,4-Dinitrophenol	<0.81	*	0.81	0.70	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B07

Lab Sample ID: 500-82524-18

Date Collected: 08/15/14 09:55

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 82.8

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	☼	08/24/14 22:29	08/27/14 18:15	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	08/24/14 22:29	08/27/14 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		25 - 110				08/24/14 22:29	08/27/14 18:15	1
Phenol-d5	48		31 - 110				08/24/14 22:29	08/27/14 18:15	1
Nitrobenzene-d5	36		25 - 115				08/24/14 22:29	08/27/14 18:15	1
2-Fluorobiphenyl	45		25 - 119				08/24/14 22:29	08/27/14 18:15	1
2,4,6-Tribromophenol	64		35 - 137				08/24/14 22:29	08/27/14 18:15	1
Terphenyl-d14	81		36 - 134				08/24/14 22:29	08/27/14 18:15	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	☼	08/29/14 09:55	08/29/14 20:05	1
Arsenic	7.2		0.56	0.11	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Barium	26		0.56	0.060	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Beryllium	0.38		0.23	0.045	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Boron	6.6		2.8	0.56	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Cadmium	0.19		0.11	0.014	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Calcium	68000		56	15	mg/Kg	☼	08/29/14 09:55	08/30/14 14:50	5
Chromium	10		0.56	0.065	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Cobalt	7.1		0.28	0.056	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Copper	18		0.56	0.11	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Iron	16000		11	4.6	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Lead	11		0.28	0.084	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Magnesium	33000		5.6	1.2	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Manganese	360		0.56	0.11	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Nickel	17		0.56	0.11	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Potassium	1300		28	1.7	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Sodium	320	B	56	7.6	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Vanadium	15		0.28	0.042	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	1
Zinc	70		1.1	0.23	mg/Kg	☼	08/29/14 09:55	08/29/14 20:05	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		08/29/14 09:15	08/29/14 22:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/29/14 09:15	08/29/14 22:25	1
Manganese	0.47		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 22:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B07

Lab Sample ID: 500-82524-18

Date Collected: 08/15/14 09:55

Matrix: Solid

Date Received: 08/16/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J	0.50	0.050	mg/L		08/26/14 10:20	08/26/14 21:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 10:20	08/26/14 21:24	1
Boron	0.11		0.10	0.050	mg/L		08/26/14 10:20	08/26/14 21:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 10:20	08/26/14 21:24	1
Chromium	0.071		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:24	1
Cobalt	0.015	J	0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:24	1
Iron	80		0.20	0.20	mg/L		08/26/14 10:20	08/26/14 21:24	1
Lead	0.038		0.0075	0.0075	mg/L		08/26/14 10:20	08/26/14 21:24	1
Manganese	0.28		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:24	1
Nickel	0.069		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:24	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 10:20	08/26/14 21:24	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:24	1
Zinc	0.28		0.10	0.020	mg/L		08/26/14 10:20	08/26/14 21:24	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		08/26/14 10:20	08/26/14 21:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 10:20	08/26/14 21:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 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	0.018		0.018	0.0072	mg/Kg	✱	08/29/14 12:00	09/02/14 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.46		0.200	0.200	SU			08/27/14 13:32	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B08

Lab Sample ID: 500-82524-19

Date Collected: 08/15/14 10:20

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.027		0.0062	0.0027	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Benzene	<0.0062		0.0062	0.00085	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Bromodichloromethane	<0.0062		0.0062	0.0011	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Bromoform	<0.0062		0.0062	0.0014	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Bromomethane	<0.0062		0.0062	0.0019	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
2-Butanone (MEK)	<0.0062		0.0062	0.0023	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Carbon disulfide	<0.0062		0.0062	0.00093	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Carbon tetrachloride	<0.0062		0.0062	0.0011	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Chlorobenzene	<0.0062		0.0062	0.00063	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Chloroethane	<0.0062		0.0062	0.0017	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Chloroform	<0.0062		0.0062	0.00072	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Chloromethane	<0.0062		0.0062	0.0013	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
cis-1,2-Dichloroethene	<0.0062		0.0062	0.00088	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
cis-1,3-Dichloropropene	<0.0062		0.0062	0.00082	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Dibromochloromethane	<0.0062		0.0062	0.0011	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
1,1-Dichloroethane	<0.0062		0.0062	0.00098	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
1,2-Dichloroethane	<0.0062		0.0062	0.00092	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
1,1-Dichloroethene	<0.0062		0.0062	0.0010	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
1,2-Dichloropropane	<0.0062		0.0062	0.00094	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
1,3-Dichloropropene, Total	<0.0062		0.0062	0.00082	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Ethylbenzene	<0.0062		0.0062	0.0013	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
2-Hexanone	<0.0062		0.0062	0.0018	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Methylene Chloride	<0.0062		0.0062	0.0017	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
4-Methyl-2-pentanone (MIBK)	<0.0062		0.0062	0.0016	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Methyl tert-butyl ether	<0.0062		0.0062	0.0010	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Styrene	<0.0062		0.0062	0.00082	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
1,1,1,2-Tetrachloroethane	<0.0062		0.0062	0.0013	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Tetrachloroethene	<0.0062		0.0062	0.00095	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Toluene	<0.0062		0.0062	0.00087	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
trans-1,2-Dichloroethene	<0.0062		0.0062	0.00086	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
trans-1,3-Dichloropropene	<0.0062		0.0062	0.0011	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
1,1,1-Trichloroethane	<0.0062		0.0062	0.00093	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
1,1,2-Trichloroethane	<0.0062		0.0062	0.00085	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Trichloroethene	<0.0062		0.0062	0.0010	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Vinyl acetate	<0.0062		0.0062	0.00098	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Vinyl chloride	<0.0062		0.0062	0.0013	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1
Xylenes, Total	<0.012		0.012	0.00056	mg/Kg	☼	08/16/14 07:25	08/20/14 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	08/16/14 07:25	08/20/14 13:48	1
Dibromofluoromethane	107		75 - 120	08/16/14 07:25	08/20/14 13:48	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	08/16/14 07:25	08/20/14 13:48	1
Toluene-d8 (Surr)	96		75 - 122	08/16/14 07:25	08/20/14 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B08

Lab Sample ID: 500-82524-19

Date Collected: 08/15/14 10:20

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 76.9

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	0.050	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Hexachlorocyclopentadiene	<0.84	*	0.84	0.24	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
2-Methylnaphthalene	<0.041		0.041	0.0077	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
2,4-Dinitrophenol	<0.84	*	0.84	0.73	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Anthracene	<0.041		0.041	0.0070	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Pyrene	<0.041		0.041	0.0083	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B08

Lab Sample ID: 500-82524-19

Date Collected: 08/15/14 10:20

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Benzo[a]pyrene	<0.041		0.041	0.0081	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	08/24/14 22:29	08/27/14 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	33		25 - 110	08/24/14 22:29	08/27/14 19:16	1
Phenol-d5	35		31 - 110	08/24/14 22:29	08/27/14 19:16	1
Nitrobenzene-d5	24	X	25 - 115	08/24/14 22:29	08/27/14 19:16	1
2-Fluorobiphenyl	30		25 - 119	08/24/14 22:29	08/27/14 19:16	1
2,4,6-Tribromophenol	45		35 - 137	08/24/14 22:29	08/27/14 19:16	1
Terphenyl-d14	55		36 - 134	08/24/14 22:29	08/27/14 19:16	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	☼	08/29/14 09:55	08/29/14 20:10	1
Arsenic	8.6		0.64	0.13	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Barium	70		0.64	0.069	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Beryllium	0.61		0.26	0.052	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Boron	4.3		3.2	0.64	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Cadmium	0.099	J	0.13	0.016	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Calcium	9900		13	3.5	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Chromium	15		0.64	0.075	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Cobalt	11		0.32	0.064	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Copper	17		0.64	0.13	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Iron	22000		13	5.3	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Lead	21		0.32	0.096	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Magnesium	6600		6.4	1.3	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Manganese	410		0.64	0.13	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Nickel	23		0.64	0.13	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Potassium	1200		32	1.9	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Selenium	0.48	J	0.64	0.23	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Sodium	2600	B	64	8.6	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Thallium	<0.64		0.64	0.27	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Vanadium	22		0.32	0.048	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	1
Zinc	70		1.3	0.26	mg/Kg	☼	08/29/14 09:55	08/29/14 20:10	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		08/29/14 09:15	08/29/14 22:31	1
Chromium	<0.025		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 22:31	1
Iron	0.26		0.20	0.20	mg/L		08/29/14 09:15	08/29/14 22:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

Client Sample ID: 2143V-12-B08

Lab Sample ID: 500-82524-19

Date Collected: 08/15/14 10:20

Matrix: Solid

Date Received: 08/16/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		08/29/14 09:15	08/29/14 22:31	1
Manganese	11		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 22:31	1
Nickel	0.011	J	0.025	0.010	mg/L		08/29/14 09:15	08/29/14 22:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.73		0.50	0.050	mg/L		08/26/14 10:20	08/26/14 21:28	1
Beryllium	0.0067		0.0040	0.0040	mg/L		08/26/14 10:20	08/26/14 21:28	1
Boron	0.80		0.10	0.050	mg/L		08/26/14 10:20	08/26/14 21:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 10:20	08/26/14 21:28	1
Chromium	0.17		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:28	1
Cobalt	0.074		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:28	1
Iron	200		0.20	0.20	mg/L		08/26/14 10:20	08/26/14 21:28	1
Lead	0.11		0.0075	0.0075	mg/L		08/26/14 10:20	08/26/14 21:28	1
Manganese	2.5		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:28	1
Nickel	0.22		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:28	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 10:20	08/26/14 21:28	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 10:20	08/26/14 21:28	1
Zinc	0.63		0.10	0.020	mg/L		08/26/14 10:20	08/26/14 21:28	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		08/29/14 09:15	08/29/14 16:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 10:20	08/26/14 21:28	1
Thallium	0.0031		0.0020	0.0020	mg/L		08/26/14 10:20	08/26/14 21:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00059		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 11:56	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	0.038		0.019	0.0074	mg/Kg	☼	08/29/14 12:00	09/02/14 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.47		0.200	0.200	SU			08/27/14 13:38	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-5

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
*	ISTD response or retention time outside acceptable 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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



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																																																																																																																																																									
Special Instructions:		ANALYSES																																																																																																																																																										
See Table 2 for complete parameter lists and minimum reporting limits.		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> <th>VOCs</th> <th>SVOCs</th> <th>BTEX & MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> <tr> <td>12</td> <td>2143 V-12-B01</td> <td>8/15</td> <td>2:00</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-8.5</td> </tr> <tr> <td>13</td> <td>2143 V-12-B02</td> <td></td> <td>2:15</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>14</td> <td>2143 V-12-B03</td> <td></td> <td>2:30</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>15</td> <td>2143 V-12-B04</td> <td></td> <td>9:45</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>16</td> <td>2143 V-12-B05</td> <td></td> <td>9:20</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>17</td> <td>2143 V-12-B06</td> <td></td> <td>9:35</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>18</td> <td>2143 V-12-B07</td> <td></td> <td>9:55</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>19</td> <td>2143 V-12-B08</td> <td></td> <td>10:20</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> </table>		Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	12	2143 V-12-B01	8/15	2:00	S	X	X					X	X	X	X		0-8.5	13	2143 V-12-B02		2:15	S	X	X					X	X	X	X			14	2143 V-12-B03		2:30	S	X	X					X	X	X	X			15	2143 V-12-B04		9:45	S	X	X					X	X	X	X			16	2143 V-12-B05		9:20	S	X	X					X	X	X	X			17	2143 V-12-B06		9:35	S	X	X					X	X	X	X			18	2143 V-12-B07		9:55	S	X	X					X	X	X	X			19	2143 V-12-B08		10:20	S	X	X					X	X	X	X		
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																																																																																																																																												
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13	2143 V-12-B02		2:15	S	X	X					X	X	X	X																																																																																																																																														
14	2143 V-12-B03		2:30	S	X	X					X	X	X	X																																																																																																																																														
15	2143 V-12-B04		9:45	S	X	X					X	X	X	X																																																																																																																																														
16	2143 V-12-B05		9:20	S	X	X					X	X	X	X																																																																																																																																														
17	2143 V-12-B06		9:35	S	X	X					X	X	X	X																																																																																																																																														
18	2143 V-12-B07		9:55	S	X	X					X	X	X	X																																																																																																																																														
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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: IL59 Ontrich, Lake Co. Project No.: IDOT 2013-089 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: CN/CM	COC No.: _____ of _____ Lab Job No.: 500-82524 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	
Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i>		Date/Time: 8/15/14 3:20 Date/Time: 8/15/14 1940 Date/Time: 8/15/14 15:30	
Received by: <i>[Signature]</i> Received by: <i>[Signature]</i> Received by: <i>[Signature]</i>		Date/Time: 8/16/14 0630 Date/Time: 8/16/14 0630 Date/Time: 8/16/14 0630	



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 104 (IL 59) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
38715-38905 N. IL 59; 24848-24859 W. Dering Lane

City: Unincorporated State: IL Zip Code: 60046

County: Lake Township: Lake Villa

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

Latitude: 42.42850 Longitude: -88.11827
(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 104 (IL 59)

Latitude: 42.42850 Longitude: -88.11827

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 2143V-13-B02 WAS SAMPLED ADJACENT TO ISGS SITE 2143V-13. SEE FIGURE 2 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]:

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID: 500-82524-6

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

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

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

Company Name: IDOT Bureau of Design and Environment

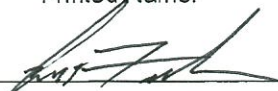
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Kurt T. Fischer

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/5/14
Date:



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.
- If all samples at a site were below the most stringent MAC, the notation “**No Contaminants of Concern Noted**” is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2143V-13

Residences

Sample ID	2143V-13-B02	2143V-13-B02 DUP							
Sample Depth (ft)	0-3.5	0-3.5							
Sample Date	8/15/2014	8/15/2014							
PID	0	0							
Sample pH	8.18	8.21							
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: 500-82524-6
Client Project/Site: IDOT - IL 59 - WO 089

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

Attn: Ms. Colleen Grey



Authorized for release by:
9/2/2014 6:52:22 PM

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

LINKS

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results through
TotalAccess

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.

1

2

3

4

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-6

Client Sample ID: 2143V-13-B02

Lab Sample ID: 500-82524-21

Date Collected: 08/15/14 13:45

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.055		0.0047	0.0020	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
2-Butanone (MEK)	0.0075		0.0047	0.0017	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
1,1,1-Dichloroethane	<0.0047		0.0047	0.00076	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1
Xylenes, Total	<0.0094		0.0094	0.00042	mg/Kg	☼	08/16/14 07:25	08/20/14 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	08/16/14 07:25	08/20/14 14:34	1
Dibromofluoromethane	104		75 - 120	08/16/14 07:25	08/20/14 14:34	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/16/14 07:25	08/20/14 14:34	1
Toluene-d8 (Surr)	98		75 - 122	08/16/14 07:25	08/20/14 14:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-6

Client Sample ID: 2143V-13-B02

Lab Sample ID: 500-82524-21

Date Collected: 08/15/14 13:45

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 86.2

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	0.043	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Hexachlorocyclopentadiene	<0.73	*	0.73	0.21	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.29	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Carbazole	<0.18		0.18	0.094	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-6

Client Sample ID: 2143V-13-B02

Lab Sample ID: 500-82524-21

Date Collected: 08/15/14 13:45

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 86.2

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	☼	08/26/14 07:32	08/27/14 20:58	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	08/26/14 07:32	08/27/14 20:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		25 - 110	08/26/14 07:32	08/27/14 20:58	1
Phenol-d5	67		31 - 110	08/26/14 07:32	08/27/14 20:58	1
Nitrobenzene-d5	51		25 - 115	08/26/14 07:32	08/27/14 20:58	1
2-Fluorobiphenyl	61		25 - 119	08/26/14 07:32	08/27/14 20:58	1
2,4,6-Tribromophenol	69		35 - 137	08/26/14 07:32	08/27/14 20:58	1
Terphenyl-d14	96		36 - 134	08/26/14 07:32	08/27/14 20:58	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	☼	08/29/14 09:55	08/29/14 20:20	1
Arsenic	2.0		0.56	0.11	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Barium	31		0.56	0.060	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Beryllium	0.38		0.22	0.045	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Boron	2.4 J		2.8	0.56	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Cadmium	0.077 J		0.11	0.014	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Calcium	1300		11	3.0	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Chromium	13		0.56	0.065	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Cobalt	7.5		0.28	0.056	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Copper	6.9		0.56	0.11	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Iron	11000		11	4.6	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Lead	14		0.28	0.083	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Magnesium	1800		5.6	1.2	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Manganese	490		0.56	0.11	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Nickel	12		0.56	0.11	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Potassium	690		28	1.7	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Sodium	380		56	7.5	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Vanadium	26		0.28	0.041	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1
Zinc	38		1.1	0.23	mg/Kg	☼	08/29/14 09:55	08/29/14 20:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.3		0.20	0.20	mg/L		08/29/14 09:15	08/29/14 22:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/29/14 09:15	08/29/14 22:59	1
Manganese	0.30		0.025	0.010	mg/L		08/29/14 09:15	08/29/14 22:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-6

Client Sample ID: 2143V-13-B02

Lab Sample ID: 500-82524-21

Date Collected: 08/15/14 13:45

Matrix: Solid

Date Received: 08/16/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36	J	0.50	0.050	mg/L		08/26/14 07:55	08/26/14 17:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 17:09	1
Boron	0.78		0.10	0.050	mg/L		08/26/14 07:55	08/26/14 17:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 17:09	1
Chromium	0.082		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:09	1
Cobalt	0.012	J	0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:09	1
Iron	51		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 17:09	1
Lead	0.050		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 17:09	1
Manganese	0.68		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:09	1
Nickel	0.052		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:09	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 17:09	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:09	1
Zinc	0.32		0.10	0.020	mg/L		08/26/14 07:55	08/26/14 17:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 07:55	08/26/14 16:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 16:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 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	0.027		0.019	0.0074	mg/Kg	✱	08/29/14 12:00	09/02/14 08:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.18		0.200	0.200	SU			08/27/14 13:51	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-6

Client Sample ID: 2143V-13-B02 Dup

Lab Sample ID: 500-82524-22

Date Collected: 08/15/14 13:50

Matrix: Solid

Date Received: 08/16/14 06:30

Percent Solids: 84.7

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	☼	08/16/14 07:25	08/20/14 14:56	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Bromodichloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
1,2-Dichloropropane	<0.0044		0.0044	0.00068	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00080	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00061	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	08/16/14 07:25	08/20/14 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	08/16/14 07:25	08/20/14 14:56	1
Dibromofluoromethane	108		75 - 120	08/16/14 07:25	08/20/14 14:56	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	08/16/14 07:25	08/20/14 14:56	1
Toluene-d8 (Surr)	96		75 - 122	08/16/14 07:25	08/20/14 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-6

Client Sample ID: 2143V-13-B02 Dup

Lab Sample ID: 500-82524-22

Date Collected: 08/15/14 13:50

Matrix: Solid

Date Received: 08/16/14 06:30

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	0.044	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Hexachlorocyclopentadiene	<0.75	*	0.75	0.21	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-6

Client Sample ID: 2143V-13-B02 Dup

Lab Sample ID: 500-82524-22

Date Collected: 08/15/14 13:50

Matrix: Solid

Date Received: 08/16/14 06:30

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	0.010	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	08/26/14 07:32	08/27/14 21:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		25 - 110	08/26/14 07:32	08/27/14 21:18	1
Phenol-d5	65		31 - 110	08/26/14 07:32	08/27/14 21:18	1
Nitrobenzene-d5	50		25 - 115	08/26/14 07:32	08/27/14 21:18	1
2-Fluorobiphenyl	57		25 - 119	08/26/14 07:32	08/27/14 21:18	1
2,4,6-Tribromophenol	64		35 - 137	08/26/14 07:32	08/27/14 21:18	1
Terphenyl-d14	92		36 - 134	08/26/14 07:32	08/27/14 21:18	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	☼	08/29/14 09:55	08/29/14 20:31	1
Arsenic	2.4		0.54	0.11	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Barium	30		0.54	0.058	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Beryllium	0.40		0.22	0.043	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Boron	2.8		2.7	0.54	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Cadmium	0.11		0.11	0.014	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Calcium	10000		11	2.9	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Chromium	13		0.54	0.063	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Cobalt	8.3		0.27	0.054	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Copper	10		0.54	0.11	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Iron	10000		11	4.4	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Lead	15		0.27	0.081	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Magnesium	7100		5.4	1.1	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Manganese	400		0.54	0.11	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Nickel	15		0.54	0.11	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Potassium	730		27	1.6	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Selenium	0.30 J		0.54	0.19	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Sodium	370 B		54	7.3	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Thallium	<0.54		0.54	0.23	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Vanadium	23		0.27	0.040	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	1
Zinc	48		1.1	0.22	mg/Kg	☼	08/29/14 09:55	08/29/14 20:31	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		09/02/14 10:30	09/02/14 13:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/02/14 10:30	09/02/14 13:44	1
Manganese	0.85		0.025	0.010	mg/L		09/02/14 10:30	09/02/14 13:44	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-6

Client Sample ID: 2143V-13-B02 Dup

Lab Sample ID: 500-82524-22

Date Collected: 08/15/14 13:50

Matrix: Solid

Date Received: 08/16/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.30	J	0.50	0.050	mg/L		08/26/14 07:55	08/26/14 17:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/26/14 07:55	08/26/14 17:13	1
Boron	0.77		0.10	0.050	mg/L		08/26/14 07:55	08/26/14 17:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/26/14 07:55	08/26/14 17:13	1
Chromium	0.064		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:13	1
Cobalt	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:13	1
Iron	39		0.20	0.20	mg/L		08/26/14 07:55	08/26/14 17:13	1
Lead	0.038		0.0075	0.0075	mg/L		08/26/14 07:55	08/26/14 17:13	1
Manganese	0.35		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:13	1
Nickel	0.043		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:13	1
Selenium	<0.050		0.050	0.010	mg/L		08/26/14 07:55	08/26/14 17:13	1
Silver	<0.025		0.025	0.010	mg/L		08/26/14 07:55	08/26/14 17:13	1
Zinc	0.27		0.10	0.020	mg/L		08/26/14 07:55	08/26/14 17:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/26/14 07:55	08/26/14 17:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/26/14 07:55	08/26/14 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/26/14 12:38	08/27/14 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	0.033		0.017	0.0066	mg/Kg	☆	08/29/14 12:00	09/02/14 08:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.21		0.200	0.200	SU			08/27/14 13:57	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 089

TestAmerica Job ID: 500-82524-6

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
*	ISTD response or retention time outside acceptable limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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



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>IL59 Antick, Lake Co.</u> Project No.: <u>IDOT 2013-089</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>CN/CM</u>		COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>506-82527</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																								
20	2143V-13-B01	8/15	1:25	S	X	X					X	X	X	X		0-3.5																								
21	2143V-13-B02		1:45	S	X	X					X	X	X	X																										
22	2143V-13-B02 DuP		1:50	S	X	X					X	X	X	X																										
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Relinquished by:</td> <td></td> <td>Date/Time:</td> <td>8/15/14 3:20</td> <td>Received by:</td> <td></td> <td>Date/Time:</td> <td>8/15/14 1530</td> </tr> <tr> <td>Relinquished by:</td> <td></td> <td>Date/Time:</td> <td>8/15/14 1840</td> <td>Received by:</td> <td></td> <td>Date/Time:</td> <td>8/16/14 0630</td> </tr> <tr> <td>Relinquished by:</td> <td></td> <td>Date/Time:</td> <td></td> <td>Received by:</td> <td></td> <td>Date/Time:</td> <td></td> </tr> </table>																	Relinquished by:		Date/Time:	8/15/14 3:20	Received by:		Date/Time:	8/15/14 1530	Relinquished by:		Date/Time:	8/15/14 1840	Received by:		Date/Time:	8/16/14 0630	Relinquished by:		Date/Time:		Received by:		Date/Time:	
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