



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 341 (IL 72) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
100 block of Big Timber Road (NE Quadrant of IL 72/Big Timber Rd Intersection)

City: Gilberts State: IL Zip Code: 60136

County: Kane Township: Rutland

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

Latitude: 42.09796 Longitude: -88.40169
(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: _____

Zip Code: 60196-1096 Phone: _____

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 341 (IL 72)
Latitude: 42.09796 Longitude: -88.40169

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 2470-1-B01 through -B04, -B06, and -B08 through -B10 were sampled adjacent to ISGS site No. 2470V-1. See Figures 3 and 5 and Tables 5a and 7 of the revised preliminary site investigation report for sampling details.

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

TestAmerica analytical report - TestAmerica job ID: 500-52473-1 & Teklab, Inc. Environmental Laboratory Work Order: 13110452

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

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

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

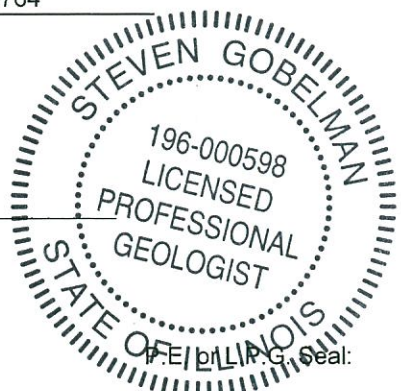
Company Name: Illinois Department of Transportation, Bureau of Design and Environment
Street Address: 2300 South Dirksen Parkway
City: Springfield State: IL Zip Code: 62764
Phone: (217)-785-7525

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

Printed Name:

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

9/19/14
Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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.

**ISGS Site 2470V-1
Agricultural Fields**

Sample ID	2470-1-B01-1	2470-1-B01-2	2470-1-B01-3	2470-1-B01-4	2470-1-B02-1	2470-1-B02-2	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	5-10	10-15	15-21	0-5	5-10						
Sample Date	11/15/2012	11/15/2012	11/15/2012	11/15/2012	11/15/2012	11/15/2012						
PID	0	0	0	0	0	0						
Sample pH	8.25	8.46	8.38	7.99	7.95	7.26						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.												

Sample ID	2470-1-B02-3	2470-1-B02-4	2470-1-B03	2470-1-B04	2470-1-B04 DUP	2470-1-B06-1	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	10-15	15-21	0-4	0-5	0-5	0-4						
Sample Date	11/15/2012	11/15/2012	11/15/2012	11/15/2012	11/15/2012	11/15/2012						
PID	0	0	0	0	0	0						
Sample pH	8.13	7.76	6.46	7.71	7.43	7.85						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.												

Sample ID	2470-1-B06-2	2470-1-B06-3	2470-1-B08	2470-1-B09	2470-1-B10	2470-1-B10 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)	4-8	8-12	0-4	0-4	0-4	0-4						
Sample Date	11/15/2012	11/15/2012	11/15/2012	11/15/2012	11/15/2012	11/15/2012						
PID	0	0	0	0	0	0						
Sample pH	7.65	7.9	8.04	7.73	8.3	8.12						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.												

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-52473-1
Client Project/Site: IDOT - IL 72 - Kane Co. - WO 055

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

Attn: Mike Nelson



Authorized for release by:
12/11/2012 3:38:49 PM

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

LINKS

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www.testamericainc.com

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

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

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-1

Lab Sample ID: 500-52473-1

Date Collected: 11/15/12 08:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
2-Butanone (MEK)	<0.0051		0.0051	0.0019	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
1,1-Dichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	11/15/12 08:30	11/21/12 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		76 - 120	11/15/12 08:30	11/21/12 03:52	1
Dibromofluoromethane	106		73 - 122	11/15/12 08:30	11/21/12 03:52	1
1,2-Dichloroethane-d4 (Surr)	110		74 - 123	11/15/12 08:30	11/21/12 03:52	1
Toluene-d8 (Surr)	114		72 - 122	11/15/12 08:30	11/21/12 03:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-1

Lab Sample ID: 500-52473-1

Date Collected: 11/15/12 08:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
2-Chlorophenol	<0.18		0.18	0.053	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Acenaphthylene	<0.037		0.037	0.0084	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
4-Nitroaniline	<0.37		0.37	0.075	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Anthracene	<0.037		0.037	0.0086	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-1

Lab Sample ID: 500-52473-1

Date Collected: 11/15/12 08:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Di-n-octyl phthalate	<0.18		0.18	0.075	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Benzo[b]fluoranthene	<0.037		0.037	0.0071	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1
3 & 4 Methylphenol	<0.18		0.18	0.070	mg/Kg	☼	11/29/12 07:12	12/08/12 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		30 - 110	11/29/12 07:12	12/08/12 13:29	1
Phenol-d5	83		31 - 110	11/29/12 07:12	12/08/12 13:29	1
Nitrobenzene-d5	82		30 - 115	11/29/12 07:12	12/08/12 13:29	1
2-Fluorobiphenyl	86		30 - 119	11/29/12 07:12	12/08/12 13:29	1
2,4,6-Tribromophenol	94		35 - 137	11/29/12 07:12	12/08/12 13:29	1
Terphenyl-d14	88		36 - 134	11/29/12 07:12	12/08/12 13:29	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0018		0.0018	0.00074	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
alpha-BHC	<0.0018		0.0018	0.00045	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
alpha-Chlordane	<0.0018		0.0018	0.00090	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
beta-BHC	<0.0018	*	0.0018	0.00055	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
4,4'-DDD	<0.0018		0.0018	0.00035	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
4,4'-DDE	<0.0018		0.0018	0.00029	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
4,4'-DDT	<0.0018		0.0018	0.00094	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
delta-BHC	<0.0018		0.0018	0.00056	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
Dieldrin	<0.0018		0.0018	0.00024	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
Endosulfan I	<0.0018		0.0018	0.00078	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
Endosulfan II	<0.0018		0.0018	0.00029	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
Endosulfan sulfate	<0.0018		0.0018	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
Endrin	<0.0018	*	0.0018	0.00025	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
Endrin aldehyde	<0.0018		0.0018	0.00030	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
Endrin ketone	<0.0018		0.0018	0.00040	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
gamma-BHC (Lindane)	<0.0018	*	0.0018	0.00038	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
gamma-Chlordane	<0.0018	*	0.0018	0.00047	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
Heptachlor	<0.0018	*	0.0018	0.00075	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
Heptachlor epoxide	<0.0018		0.0018	0.00063	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
Methoxychlor	<0.0088		0.0088	0.00034	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1
Toxaphene	<0.018		0.018	0.0075	mg/Kg	☼	11/29/12 16:45	12/04/12 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		53 - 142	11/29/12 16:45	12/04/12 17:49	1
Tetrachloro-m-xylene	52		43 - 122	11/29/12 16:45	12/04/12 17:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-1

Lab Sample ID: 500-52473-1

Date Collected: 11/15/12 08:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.8		0.55	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Barium	36		0.55	0.066	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Beryllium	0.27		0.22	0.016	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Boron	1.7	J	2.8	0.52	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Cadmium	0.060	J	0.11	0.027	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Calcium	3600	B	11	2.0	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Chromium	7.1		0.55	0.092	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Cobalt	5.3		0.28	0.029	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Copper	14		0.55	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Iron	10000		11	4.8	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Lead	8.6		0.28	0.095	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Magnesium	2600	B	5.5	1.1	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Manganese	430		0.55	0.078	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Nickel	21		0.55	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Potassium	440		28	3.1	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Selenium	0.51	J	0.55	0.16	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Sodium	93	B	55	10	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Vanadium	13	B	0.28	0.042	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1
Zinc	44		1.1	0.38	mg/Kg	☼	11/19/12 09:35	11/29/12 20:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.51		0.50	0.010	mg/L		11/28/12 15:30	11/29/12 20:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/29/12 20:32	1
Boron	0.066	J	0.50	0.050	mg/L		11/28/12 15:30	11/29/12 20:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/29/12 20:32	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:32	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 20:32	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:32	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/29/12 20:32	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/29/12 20:32	1
Manganese	0.29		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:32	1
Nickel	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:32	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/29/12 20:32	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 20:32	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/29/12 20:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 17:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 17:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J B ^	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-1

Lab Sample ID: 500-52473-1

Date Collected: 11/15/12 08:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 90.1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0069	mg/Kg	☼	12/03/12 16:00	12/04/12 09:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.25		0.200	0.200	SU			11/21/12 09:11	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-2

Lab Sample ID: 500-52473-2

Date Collected: 11/15/12 08:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00058	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00058	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Styrene	<0.0045		0.0045	0.00058	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Toluene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	11/15/12 08:35	11/21/12 04:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		76 - 120	11/15/12 08:35	11/21/12 04:15	1
Dibromofluoromethane	107		73 - 122	11/15/12 08:35	11/21/12 04:15	1
1,2-Dichloroethane-d4 (Surr)	107		74 - 123	11/15/12 08:35	11/21/12 04:15	1
Toluene-d8 (Surr)	112		72 - 122	11/15/12 08:35	11/21/12 04:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/29/12 07:12	12/08/12 13:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/29/12 07:12	12/08/12 13:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 13:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 13:47	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 13:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-2

Lab Sample ID: 500-52473-2

Date Collected: 11/15/12 08:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Isophorone	<0.19		0.19	0.043	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Dibenzofuran	<0.19		0.19	0.047	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
4-Nitroaniline	<0.39		0.39	0.079	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Carbazole	<0.19		0.19	0.054	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Pyrene	<0.039		0.039	0.014	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Butyl benzyl phthalate	<0.19		0.19	0.049	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Benzo[a]anthracene	<0.039		0.039	0.0081	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1
Chrysene	<0.039		0.039	0.0088	mg/Kg	*	11/29/12 07:12	12/08/12 13:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-2

Lab Sample ID: 500-52473-2

Date Collected: 11/15/12 08:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/29/12 07:12	12/08/12 13:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 13:47	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	11/29/12 07:12	12/08/12 13:47	1
Benzo[b]fluoranthene	<0.039		0.039	0.0075	mg/Kg	☼	11/29/12 07:12	12/08/12 13:47	1
Benzo[k]fluoranthene	<0.039		0.039	0.0092	mg/Kg	☼	11/29/12 07:12	12/08/12 13:47	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	11/29/12 07:12	12/08/12 13:47	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 13:47	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 13:47	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 13:47	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/29/12 07:12	12/08/12 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		30 - 110	11/29/12 07:12	12/08/12 13:47	1
Phenol-d5	88		31 - 110	11/29/12 07:12	12/08/12 13:47	1
Nitrobenzene-d5	81		30 - 115	11/29/12 07:12	12/08/12 13:47	1
2-Fluorobiphenyl	87		30 - 119	11/29/12 07:12	12/08/12 13:47	1
2,4,6-Tribromophenol	95		35 - 137	11/29/12 07:12	12/08/12 13:47	1
Terphenyl-d14	95		36 - 134	11/29/12 07:12	12/08/12 13:47	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00079	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
alpha-BHC	<0.0019		0.0019	0.00049	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
alpha-Chlordane	<0.0019		0.0019	0.00097	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
beta-BHC	<0.0019	*	0.0019	0.00059	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
4,4'-DDE	<0.0019		0.0019	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
4,4'-DDT	<0.0019		0.0019	0.0010	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
Endosulfan I	<0.0019		0.0019	0.00084	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
Endrin	<0.0019	*	0.0019	0.00026	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
gamma-BHC (Lindane)	<0.0019	*	0.0019	0.00042	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
gamma-Chlordane	<0.0019	*	0.0019	0.00050	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
Heptachlor	<0.0019	*	0.0019	0.00080	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
Heptachlor epoxide	<0.0019		0.0019	0.00068	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
Methoxychlor	<0.0095		0.0095	0.00037	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1
Toxaphene	<0.019		0.019	0.0081	mg/Kg	☼	11/29/12 16:45	12/04/12 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	85		53 - 142	11/29/12 16:45	12/04/12 18:46	1
Tetrachloro-m-xylene	52		43 - 122	11/29/12 16:45	12/04/12 18:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.1	0.14	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-2

Lab Sample ID: 500-52473-2

Date Collected: 11/15/12 08:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		0.53	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Barium	35		0.53	0.064	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Beryllium	0.37		0.21	0.016	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Boron	6.6		2.7	0.50	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Cadmium	0.12		0.11	0.026	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Calcium	94000	B	110	19	mg/Kg	☼	11/19/12 09:35	11/30/12 17:19	10
Chromium	10		0.53	0.089	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Cobalt	7.0		0.27	0.028	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Copper	14		0.53	0.14	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Iron	11000		11	4.6	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Lead	8.6		0.27	0.092	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Magnesium	37000	B	5.3	1.0	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Manganese	310		0.53	0.075	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Nickel	16		0.53	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Potassium	1100		27	3.0	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Selenium	0.43	J	0.53	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Sodium	260	B	53	9.8	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Thallium	<0.53		0.53	0.14	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Vanadium	16	B	0.27	0.041	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1
Zinc	44		1.1	0.37	mg/Kg	☼	11/19/12 09:35	11/29/12 21:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J	0.50	0.010	mg/L		11/28/12 15:30	11/29/12 20:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/29/12 20:38	1
Boron	0.074	J	0.50	0.050	mg/L		11/28/12 15:30	11/29/12 20:38	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		11/28/12 15:30	11/29/12 20:38	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:38	1
Cobalt	0.011	J	0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 20:38	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:38	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/29/12 20:38	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/29/12 20:38	1
Manganese	3.5		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:38	1
Nickel	0.046		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:38	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/29/12 20:38	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 20:38	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/29/12 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 17:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 17:35	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J ^ B	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-2

Lab Sample ID: 500-52473-2

Date Collected: 11/15/12 08:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0070	mg/Kg	☼	12/03/12 16:00	12/04/12 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.46		0.200	0.200	SU			11/21/12 09:14	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-3

Lab Sample ID: 500-52473-3

Date Collected: 11/15/12 08:40

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0060		0.0060	0.0026	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Benzene	<0.0060		0.0060	0.00082	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Bromodichloromethane	<0.0060		0.0060	0.0010	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Bromoform	<0.0060		0.0060	0.0014	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Bromomethane	<0.0060		0.0060	0.0018	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
2-Butanone (MEK)	<0.0060		0.0060	0.0022	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Carbon disulfide	<0.0060		0.0060	0.00089	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Carbon tetrachloride	<0.0060		0.0060	0.0011	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Chlorobenzene	<0.0060		0.0060	0.00061	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Chloroethane	<0.0060		0.0060	0.0016	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Chloroform	<0.0060		0.0060	0.00069	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Chloromethane	<0.0060		0.0060	0.0013	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
cis-1,2-Dichloroethene	<0.0060		0.0060	0.00085	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
cis-1,3-Dichloropropene	<0.0060		0.0060	0.00079	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Dibromochloromethane	<0.0060		0.0060	0.0010	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
1,1-Dichloroethane	<0.0060		0.0060	0.00095	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
1,2-Dichloroethane	<0.0060		0.0060	0.00089	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
1,1-Dichloroethene	<0.0060		0.0060	0.00097	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
1,2-Dichloropropane	<0.0060		0.0060	0.00091	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
1,3-Dichloropropene, Total	<0.0060		0.0060	0.00079	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Ethylbenzene	<0.0060		0.0060	0.0012	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
2-Hexanone	<0.0060		0.0060	0.0017	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Methylene Chloride	<0.0060		0.0060	0.0016	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
4-Methyl-2-pentanone (MIBK)	<0.0060		0.0060	0.0016	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Methyl tert-butyl ether	<0.0060		0.0060	0.00099	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Styrene	<0.0060		0.0060	0.00079	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
1,1,2,2-Tetrachloroethane	<0.0060		0.0060	0.0012	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Tetrachloroethene	<0.0060		0.0060	0.00091	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Toluene	<0.0060		0.0060	0.00084	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
trans-1,2-Dichloroethene	<0.0060		0.0060	0.00082	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
trans-1,3-Dichloropropene	<0.0060		0.0060	0.0011	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
1,1,1-Trichloroethane	<0.0060		0.0060	0.00089	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
1,1,2-Trichloroethane	<0.0060		0.0060	0.00082	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Trichloroethene	<0.0060		0.0060	0.00099	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Vinyl chloride	<0.0060		0.0060	0.0013	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1
Xylenes, Total	<0.012		0.012	0.00054	mg/Kg	☼	11/15/12 08:40	11/21/12 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		76 - 120	11/15/12 08:40	11/21/12 12:28	1
Dibromofluoromethane	102		73 - 122	11/15/12 08:40	11/21/12 12:28	1
1,2-Dichloroethane-d4 (Surr)	102		74 - 123	11/15/12 08:40	11/21/12 12:28	1
Toluene-d8 (Surr)	109		72 - 122	11/15/12 08:40	11/21/12 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-3

Lab Sample ID: 500-52473-3

Date Collected: 11/15/12 08:40

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Acenaphthene	0.014	J	0.039	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Phenanthrene	0.029	J	0.039	0.016	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Pyrene	0.018	J	0.039	0.014	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Benzo[a]anthracene	0.0082	J	0.039	0.0082	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Chrysene	0.011	J	0.039	0.0088	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-3

Lab Sample ID: 500-52473-3

Date Collected: 11/15/12 08:40

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/29/12 07:12	12/08/12 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		30 - 110	11/29/12 07:12	12/08/12 14:04	1
Phenol-d5	86		31 - 110	11/29/12 07:12	12/08/12 14:04	1
Nitrobenzene-d5	81		30 - 115	11/29/12 07:12	12/08/12 14:04	1
2-Fluorobiphenyl	85		30 - 119	11/29/12 07:12	12/08/12 14:04	1
2,4,6-Tribromophenol	94		35 - 137	11/29/12 07:12	12/08/12 14:04	1
Terphenyl-d14	87		36 - 134	11/29/12 07:12	12/08/12 14:04	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00082	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
alpha-BHC	<0.0020		0.0020	0.00050	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
alpha-Chlordane	<0.0020		0.0020	0.0010	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
beta-BHC	<0.0020	*	0.0020	0.00061	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
4,4'-DDE	<0.0020		0.0020	0.00033	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
delta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
Endosulfan I	<0.0020		0.0020	0.00086	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
Endrin	<0.0020	*	0.0020	0.00027	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
Endrin ketone	<0.0020		0.0020	0.00045	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
gamma-BHC (Lindane)	<0.0020	*	0.0020	0.00043	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
gamma-Chlordane	<0.0020	*	0.0020	0.00052	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
Heptachlor	<0.0020	*	0.0020	0.00083	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
Heptachlor epoxide	<0.0020		0.0020	0.00070	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
Methoxychlor	<0.0098		0.0098	0.00038	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1
Toxaphene	<0.020		0.020	0.0083	mg/Kg	☼	11/29/12 16:45	12/04/12 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	82		53 - 142	11/29/12 16:45	12/04/12 19:05	1
Tetrachloro-m-xylene	61		43 - 122	11/29/12 16:45	12/04/12 19:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.1	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-3

Lab Sample ID: 500-52473-3

Date Collected: 11/15/12 08:40

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.2		0.55	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Barium	25		0.55	0.066	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Beryllium	0.35		0.22	0.016	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Boron	7.1		2.8	0.52	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Cadmium	0.14		0.11	0.027	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Calcium	100000	B	110	20	mg/Kg	☼	11/19/12 09:35	11/30/12 17:23	10
Chromium	10		0.55	0.092	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Cobalt	6.1		0.28	0.029	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Copper	14		0.55	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Iron	9500		11	4.8	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Lead	8.0		0.28	0.095	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Magnesium	41000	B	5.5	1.1	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Manganese	290		0.55	0.078	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Nickel	16		0.55	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Potassium	1200		28	3.1	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Selenium	0.52	J	0.55	0.16	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Sodium	300	B	55	10	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Vanadium	15	B	0.28	0.042	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1
Zinc	41		1.1	0.38	mg/Kg	☼	11/19/12 09:35	11/29/12 21:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J	0.50	0.010	mg/L		11/28/12 15:30	11/29/12 20:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/29/12 20:45	1
Boron	0.070	J	0.50	0.050	mg/L		11/28/12 15:30	11/29/12 20:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/29/12 20:45	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:45	1
Cobalt	0.015	J	0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 20:45	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:45	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/29/12 20:45	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/29/12 20:45	1
Manganese	2.1		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:45	1
Nickel	0.036		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:45	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/29/12 20:45	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 20:45	1
Zinc	0.030	J	0.10	0.020	mg/L		11/28/12 15:30	11/29/12 20:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 17:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 17:36	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J B ^	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-3

Lab Sample ID: 500-52473-3

Date Collected: 11/15/12 08:40

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.3

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0073	mg/Kg	☼	12/03/12 16:00	12/04/12 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.38		0.200	0.200	SU			11/21/12 09:17	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-4

Lab Sample ID: 500-52473-4

Date Collected: 11/15/12 08:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	11/15/12 08:45	11/21/12 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		76 - 120	11/15/12 08:45	11/21/12 12:51	1
Dibromofluoromethane	100		73 - 122	11/15/12 08:45	11/21/12 12:51	1
1,2-Dichloroethane-d4 (Surr)	103		74 - 123	11/15/12 08:45	11/21/12 12:51	1
Toluene-d8 (Surr)	109		72 - 122	11/15/12 08:45	11/21/12 12:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-4

Lab Sample ID: 500-52473-4

Date Collected: 11/15/12 08:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-4

Lab Sample ID: 500-52473-4

Date Collected: 11/15/12 08:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/29/12 07:12	12/08/12 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		30 - 110	11/29/12 07:12	12/08/12 14:21	1
Phenol-d5	86		31 - 110	11/29/12 07:12	12/08/12 14:21	1
Nitrobenzene-d5	77		30 - 115	11/29/12 07:12	12/08/12 14:21	1
2-Fluorobiphenyl	83		30 - 119	11/29/12 07:12	12/08/12 14:21	1
2,4,6-Tribromophenol	96		35 - 137	11/29/12 07:12	12/08/12 14:21	1
Terphenyl-d14	89		36 - 134	11/29/12 07:12	12/08/12 14:21	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00082	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
alpha-BHC	<0.0020		0.0020	0.00050	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
alpha-Chlordane	<0.0020		0.0020	0.00099	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
beta-BHC	<0.0020	*	0.0020	0.00061	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
4,4'-DDE	<0.0020		0.0020	0.00033	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
delta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
Endosulfan I	<0.0020		0.0020	0.00086	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
Endrin	<0.0020	*	0.0020	0.00027	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
gamma-BHC (Lindane)	<0.0020	*	0.0020	0.00043	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
gamma-Chlordane	<0.0020	*	0.0020	0.00052	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
Heptachlor	<0.0020	*	0.0020	0.00082	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
Heptachlor epoxide	<0.0020		0.0020	0.00070	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
Methoxychlor	<0.0098		0.0098	0.00038	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1
Toxaphene	<0.020		0.020	0.0083	mg/Kg	☼	11/29/12 16:45	12/04/12 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	86		53 - 142	11/29/12 16:45	12/04/12 19:24	1
Tetrachloro-m-xylene	57		43 - 122	11/29/12 16:45	12/04/12 19:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.1	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-4

Lab Sample ID: 500-52473-4

Date Collected: 11/15/12 08:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		0.56	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Barium	20		0.56	0.067	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Beryllium	0.27		0.22	0.016	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Boron	5.6		2.8	0.52	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Cadmium	0.12		0.11	0.028	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Calcium	94000	B	110	20	mg/Kg	☼	11/19/12 09:35	11/30/12 17:27	10
Chromium	7.7		0.56	0.094	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Cobalt	4.4		0.28	0.029	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Copper	11		0.56	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Iron	8600		11	4.9	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Lead	6.3		0.28	0.096	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Magnesium	38000	B	5.6	1.1	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Manganese	270		0.56	0.079	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Nickel	11		0.56	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Potassium	930		28	3.2	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Selenium	0.36	J	0.56	0.16	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Sodium	350	B	56	10	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Vanadium	13	B	0.28	0.043	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1
Zinc	33		1.1	0.38	mg/Kg	☼	11/19/12 09:35	11/29/12 21:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.28	J	0.50	0.010	mg/L		11/28/12 15:30	11/29/12 20:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/29/12 20:51	1
Boron	0.058	J	0.50	0.050	mg/L		11/28/12 15:30	11/29/12 20:51	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		11/28/12 15:30	11/29/12 20:51	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:51	1
Cobalt	0.023	J	0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 20:51	1
Copper	0.023	J	0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:51	1
Iron	23		0.20	0.20	mg/L		11/28/12 15:30	11/29/12 20:51	1
Lead	0.0099		0.0075	0.0050	mg/L		11/28/12 15:30	11/29/12 20:51	1
Manganese	4.5		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:51	1
Nickel	0.042		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:51	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/29/12 20:51	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 20:51	1
Zinc	0.19		0.10	0.020	mg/L		11/28/12 15:30	11/29/12 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 17:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 17:37	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B ^	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B01-4

Lab Sample ID: 500-52473-4

Date Collected: 11/15/12 08:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.2

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0071	mg/Kg	☼	12/03/12 16:00	12/04/12 09:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.99		0.200	0.200	SU			11/21/12 09:20	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-1

Lab Sample ID: 500-52473-5

Date Collected: 11/15/12 09:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0023	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Bromodichloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Carbon tetrachloride	<0.0052		0.0052	0.00095	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Dibromochloromethane	<0.0052		0.0052	0.00091	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
1,1-Dichloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Ethylbenzene	<0.0052		0.0052	0.0011	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00086	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Tetrachloroethene	<0.0052		0.0052	0.00080	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00072	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	11/15/12 09:00	11/21/12 05:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		76 - 120	11/15/12 09:00	11/21/12 05:25	1
Dibromofluoromethane	105		73 - 122	11/15/12 09:00	11/21/12 05:25	1
1,2-Dichloroethane-d4 (Surr)	107		74 - 123	11/15/12 09:00	11/21/12 05:25	1
Toluene-d8 (Surr)	110		72 - 122	11/15/12 09:00	11/21/12 05:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-1

Lab Sample ID: 500-52473-5

Date Collected: 11/15/12 09:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-1

Lab Sample ID: 500-52473-5

Date Collected: 11/15/12 09:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/29/12 07:12	12/08/12 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		30 - 110	11/29/12 07:12	12/08/12 14:38	1
Phenol-d5	94		31 - 110	11/29/12 07:12	12/08/12 14:38	1
Nitrobenzene-d5	89		30 - 115	11/29/12 07:12	12/08/12 14:38	1
2-Fluorobiphenyl	92		30 - 119	11/29/12 07:12	12/08/12 14:38	1
2,4,6-Tribromophenol	103		35 - 137	11/29/12 07:12	12/08/12 14:38	1
Terphenyl-d14	97		36 - 134	11/29/12 07:12	12/08/12 14:38	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
alpha-Chlordane	<0.0019		0.0019	0.00093	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
beta-BHC	<0.0019	*	0.0019	0.00057	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
4,4'-DDT	<0.0019		0.0019	0.00097	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
delta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
Dieldrin	<0.0019		0.0019	0.00025	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
Endosulfan I	<0.0019		0.0019	0.00081	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
Endrin	<0.0019	*	0.0019	0.00026	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
gamma-BHC (Lindane)	<0.0019	*	0.0019	0.00040	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
gamma-Chlordane	<0.0019	*	0.0019	0.00048	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
Heptachlor	<0.0019	*	0.0019	0.00078	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
Methoxychlor	<0.0092		0.0092	0.00036	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1
Toxaphene	<0.018		0.018	0.0078	mg/Kg	☼	11/29/12 16:45	12/04/12 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		53 - 142	11/29/12 16:45	12/04/12 19:43	1
Tetrachloro-m-xylene	64		43 - 122	11/29/12 16:45	12/04/12 19:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-1

Lab Sample ID: 500-52473-5

Date Collected: 11/15/12 09:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		0.55	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Barium	91		0.55	0.066	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Beryllium	0.57		0.22	0.016	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Boron	2.2	J	2.8	0.51	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Cadmium	0.061	J	0.11	0.027	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Calcium	2200	B	11	1.9	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Chromium	17		0.55	0.092	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Cobalt	7.7		0.28	0.029	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Copper	16		0.55	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Iron	19000		11	4.8	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Lead	12		0.28	0.095	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Magnesium	3400	B	5.5	1.1	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Manganese	280		0.55	0.078	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Nickel	18		0.55	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Potassium	820		28	3.1	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Selenium	0.57		0.55	0.16	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Sodium	59	B	55	10	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Vanadium	33	B	0.28	0.042	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1
Zinc	53		1.1	0.38	mg/Kg	☼	11/19/12 09:35	11/29/12 21:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.40	J	0.50	0.010	mg/L		11/28/12 15:30	11/29/12 20:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/29/12 20:57	1
Boron	0.054	J	0.50	0.050	mg/L		11/28/12 15:30	11/29/12 20:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/29/12 20:57	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:57	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 20:57	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:57	1
Iron	0.21		0.20	0.20	mg/L		11/28/12 15:30	11/29/12 20:57	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/29/12 20:57	1
Manganese	0.14		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:57	1
Nickel	0.011	J	0.025	0.010	mg/L		11/28/12 15:30	11/29/12 20:57	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/29/12 20:57	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 20:57	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/29/12 20:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 17:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 17:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J B ^	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:41	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-1

Lab Sample ID: 500-52473-5

Date Collected: 11/15/12 09:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 87.0

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0073	mg/Kg	☼	12/03/12 16:00	12/04/12 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.95		0.200	0.200	SU			11/21/12 09:23	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-2

Lab Sample ID: 500-52473-6

Date Collected: 11/15/12 09:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
1,1-Dichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	11/15/12 09:05	11/21/12 05:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		76 - 120	11/15/12 09:05	11/21/12 05:48	1
Dibromofluoromethane	102		73 - 122	11/15/12 09:05	11/21/12 05:48	1
1,2-Dichloroethane-d4 (Surr)	106		74 - 123	11/15/12 09:05	11/21/12 05:48	1
Toluene-d8 (Surr)	112		72 - 122	11/15/12 09:05	11/21/12 05:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-2

Lab Sample ID: 500-52473-6

Date Collected: 11/15/12 09:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-2

Lab Sample ID: 500-52473-6

Date Collected: 11/15/12 09:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/29/12 07:12	12/08/12 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		30 - 110	11/29/12 07:12	12/08/12 14:55	1
Phenol-d5	82		31 - 110	11/29/12 07:12	12/08/12 14:55	1
Nitrobenzene-d5	81		30 - 115	11/29/12 07:12	12/08/12 14:55	1
2-Fluorobiphenyl	86		30 - 119	11/29/12 07:12	12/08/12 14:55	1
2,4,6-Tribromophenol	91		35 - 137	11/29/12 07:12	12/08/12 14:55	1
Terphenyl-d14	87		36 - 134	11/29/12 07:12	12/08/12 14:55	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00079	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
alpha-BHC	<0.0019		0.0019	0.00048	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
alpha-Chlordane	<0.0019		0.0019	0.00096	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
beta-BHC	<0.0019	*	0.0019	0.00059	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
4,4'-DDD	<0.0019		0.0019	0.00038	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
4,4'-DDE	<0.0019		0.0019	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
4,4'-DDT	<0.0019		0.0019	0.0010	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
delta-BHC	<0.0019		0.0019	0.00060	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
Endosulfan I	<0.0019		0.0019	0.00083	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
Endosulfan II	<0.0019		0.0019	0.00031	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
Endosulfan sulfate	<0.0019		0.0019	0.00035	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
Endrin	<0.0019	*	0.0019	0.00026	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
Endrin aldehyde	<0.0019		0.0019	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
Endrin ketone	<0.0019		0.0019	0.00043	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
gamma-BHC (Lindane)	<0.0019	*	0.0019	0.00041	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
gamma-Chlordane	<0.0019	*	0.0019	0.00050	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
Heptachlor	<0.0019	*	0.0019	0.00080	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
Heptachlor epoxide	<0.0019		0.0019	0.00068	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
Methoxychlor	<0.0095		0.0095	0.00037	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1
Toxaphene	<0.019		0.019	0.0080	mg/Kg	☼	11/29/12 16:45	12/04/12 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	96		53 - 142	11/29/12 16:45	12/04/12 20:02	1
Tetrachloro-m-xylene	68		43 - 122	11/29/12 16:45	12/04/12 20:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J	1.1	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-2

Lab Sample ID: 500-52473-6

Date Collected: 11/15/12 09:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		0.55	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Barium	14		0.55	0.066	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Beryllium	0.15	J	0.22	0.016	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Boron	2.5	J	2.8	0.52	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Cadmium	0.076	J	0.11	0.027	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Calcium	59000	B	110	20	mg/Kg	☼	11/19/12 09:35	11/30/12 17:31	10
Chromium	4.1		0.55	0.092	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Cobalt	2.8		0.28	0.029	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Copper	7.9		0.55	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Iron	6400		11	4.8	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Lead	4.6		0.28	0.095	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Magnesium	28000	B	5.5	1.1	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Manganese	270		0.55	0.078	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Nickel	7.5		0.55	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Potassium	360		28	3.1	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Selenium	0.18	J	0.55	0.16	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Sodium	150	B	55	10	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Vanadium	7.4	B	0.28	0.042	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1
Zinc	24		1.1	0.38	mg/Kg	☼	11/19/12 09:35	11/29/12 21:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.33	J	0.50	0.010	mg/L		11/28/12 15:30	11/29/12 21:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/29/12 21:03	1
Boron	<0.50		0.50	0.050	mg/L		11/28/12 15:30	11/29/12 21:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/29/12 21:03	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:03	1
Cobalt	0.016	J	0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 21:03	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:03	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/29/12 21:03	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/29/12 21:03	1
Manganese	3.7		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:03	1
Nickel	0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:03	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/29/12 21:03	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 21:03	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/29/12 21:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 17:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 17:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00015	J B ^	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:43	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-2

Lab Sample ID: 500-52473-6

Date Collected: 11/15/12 09:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.9

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0073	mg/Kg	☼	12/03/12 16:00	12/04/12 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.26		0.200	0.200	SU			11/21/12 09:26	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-3

Lab Sample ID: 500-52473-7

Date Collected: 11/15/12 09:10

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Bromoform	<0.0042		0.0042	0.00097	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Carbon tetrachloride	<0.0042		0.0042	0.00077	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
1,1-Dichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00070	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	11/15/12 09:10	11/21/12 06:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		76 - 120	11/15/12 09:10	11/21/12 06:11	1
Dibromofluoromethane	102		73 - 122	11/15/12 09:10	11/21/12 06:11	1
1,2-Dichloroethane-d4 (Surr)	104		74 - 123	11/15/12 09:10	11/21/12 06:11	1
Toluene-d8 (Surr)	110		72 - 122	11/15/12 09:10	11/21/12 06:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/29/12 07:12	12/08/12 15:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/29/12 07:12	12/08/12 15:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:12	12/08/12 15:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:12	12/08/12 15:12	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 15:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-3

Lab Sample ID: 500-52473-7

Date Collected: 11/15/12 09:10

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Isophorone	<0.19		0.19	0.043	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Carbazole	<0.19		0.19	0.054	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Pyrene	<0.038		0.038	0.014	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	*	11/29/12 07:12	12/08/12 15:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-3

Lab Sample ID: 500-52473-7

Date Collected: 11/15/12 09:10

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/29/12 07:12	12/08/12 15:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 15:12	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/29/12 07:12	12/08/12 15:12	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	11/29/12 07:12	12/08/12 15:12	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	11/29/12 07:12	12/08/12 15:12	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/29/12 07:12	12/08/12 15:12	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 15:12	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 15:12	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 15:12	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/29/12 07:12	12/08/12 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		30 - 110				11/29/12 07:12	12/08/12 15:12	1
Phenol-d5	86		31 - 110				11/29/12 07:12	12/08/12 15:12	1
Nitrobenzene-d5	80		30 - 115				11/29/12 07:12	12/08/12 15:12	1
2-Fluorobiphenyl	84		30 - 119				11/29/12 07:12	12/08/12 15:12	1
2,4,6-Tribromophenol	92		35 - 137				11/29/12 07:12	12/08/12 15:12	1
Terphenyl-d14	87		36 - 134				11/29/12 07:12	12/08/12 15:12	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00080	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
alpha-Chlordane	<0.0020		0.0020	0.00098	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
beta-BHC	<0.0020	*	0.0020	0.00060	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
4,4'-DDD	<0.0020		0.0020	0.00038	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
Dieldrin	<0.0020		0.0020	0.00026	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
Endosulfan I	<0.0020		0.0020	0.00085	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
Endosulfan II	<0.0020		0.0020	0.00031	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
Endosulfan sulfate	<0.0020		0.0020	0.00035	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
Endrin	<0.0020	*	0.0020	0.00027	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
Endrin aldehyde	<0.0020		0.0020	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
gamma-BHC (Lindane)	<0.0020	*	0.0020	0.00042	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
gamma-Chlordane	<0.0020	*	0.0020	0.00051	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
Heptachlor	<0.0020	*	0.0020	0.00081	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
Methoxychlor	<0.0096		0.0096	0.00037	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
Toxaphene	<0.019		0.019	0.0081	mg/Kg	☼	11/29/12 16:45	12/04/12 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		53 - 142				11/29/12 16:45	12/04/12 20:22	1
Tetrachloro-m-xylene	45		43 - 122				11/29/12 16:45	12/04/12 20:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.1	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-3

Lab Sample ID: 500-52473-7

Date Collected: 11/15/12 09:10

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		0.56	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Barium	18		0.56	0.066	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Beryllium	0.25		0.22	0.016	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Boron	4.8		2.8	0.52	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Cadmium	0.092	J	0.11	0.028	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Calcium	90000	B	110	20	mg/Kg	☼	11/19/12 09:35	11/30/12 17:35	10
Chromium	6.7		0.56	0.093	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Cobalt	4.5		0.28	0.029	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Copper	12		0.56	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Iron	8600		11	4.8	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Lead	6.4		0.28	0.096	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Magnesium	37000	B	5.6	1.1	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Manganese	240		0.56	0.079	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Nickel	11		0.56	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Potassium	750		28	3.2	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Selenium	0.34	J	0.56	0.16	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Sodium	230	B	56	10	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Vanadium	12	B	0.28	0.042	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1
Zinc	28		1.1	0.38	mg/Kg	☼	11/19/12 09:35	11/29/12 21:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27	J	0.50	0.010	mg/L		11/28/12 15:30	11/29/12 21:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/29/12 21:09	1
Boron	0.095	J	0.50	0.050	mg/L		11/28/12 15:30	11/29/12 21:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/29/12 21:09	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:09	1
Cobalt	0.051		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 21:09	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:09	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/29/12 21:09	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/29/12 21:09	1
Manganese	3.9		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:09	1
Nickel	0.024	J	0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:09	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/29/12 21:09	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 21:09	1
Zinc	0.033	J	0.10	0.020	mg/L		11/28/12 15:30	11/29/12 21:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 17:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 17:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J B ^	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-3

Lab Sample ID: 500-52473-7

Date Collected: 11/15/12 09:10

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.6

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0071	mg/Kg	☼	12/03/12 16:00	12/04/12 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13		0.200	0.200	SU			11/21/12 09:33	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-4

Lab Sample ID: 500-52473-8

Date Collected: 11/15/12 09:15

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1
Xylenes, Total	<0.0096		0.0096	0.00044	mg/Kg	☼	11/15/12 09:15	11/21/12 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		76 - 120	11/15/12 09:15	11/21/12 13:14	1
Dibromofluoromethane	99		73 - 122	11/15/12 09:15	11/21/12 13:14	1
1,2-Dichloroethane-d4 (Surr)	102		74 - 123	11/15/12 09:15	11/21/12 13:14	1
Toluene-d8 (Surr)	108		72 - 122	11/15/12 09:15	11/21/12 13:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	11/29/12 07:12	12/08/12 15:29	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/29/12 07:12	12/08/12 15:29	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 15:29	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 15:29	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 15:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-4

Lab Sample ID: 500-52473-8

Date Collected: 11/15/12 09:15

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Isophorone	<0.20		0.20	0.045	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Carbazole	<0.20		0.20	0.057	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Pyrene	<0.040		0.040	0.015	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	*	11/29/12 07:12	12/08/12 15:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-4

Lab Sample ID: 500-52473-8

Date Collected: 11/15/12 09:15

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	11/29/12 07:12	12/08/12 15:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	11/29/12 07:12	12/08/12 15:29	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	11/29/12 07:12	12/08/12 15:29	1
Benzo[b]fluoranthene	<0.040		0.040	0.0079	mg/Kg	☼	11/29/12 07:12	12/08/12 15:29	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	11/29/12 07:12	12/08/12 15:29	1
Benzo[a]pyrene	<0.040		0.040	0.0074	mg/Kg	☼	11/29/12 07:12	12/08/12 15:29	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	11/29/12 07:12	12/08/12 15:29	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 15:29	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	11/29/12 07:12	12/08/12 15:29	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	11/29/12 07:12	12/08/12 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		30 - 110	11/29/12 07:12	12/08/12 15:29	1
Phenol-d5	84		31 - 110	11/29/12 07:12	12/08/12 15:29	1
Nitrobenzene-d5	79		30 - 115	11/29/12 07:12	12/08/12 15:29	1
2-Fluorobiphenyl	80		30 - 119	11/29/12 07:12	12/08/12 15:29	1
2,4,6-Tribromophenol	94		35 - 137	11/29/12 07:12	12/08/12 15:29	1
Terphenyl-d14	86		36 - 134	11/29/12 07:12	12/08/12 15:29	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00082	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
alpha-BHC	<0.0020		0.0020	0.00050	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
alpha-Chlordane	<0.0020		0.0020	0.0010	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
beta-BHC	<0.0020	*	0.0020	0.00061	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
4,4'-DDE	<0.0020		0.0020	0.00033	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
delta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
Endosulfan I	<0.0020		0.0020	0.00087	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
Endrin	<0.0020	*	0.0020	0.00027	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
Endrin ketone	<0.0020		0.0020	0.00045	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
gamma-BHC (Lindane)	<0.0020	*	0.0020	0.00043	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
gamma-Chlordane	<0.0020	*	0.0020	0.00052	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
Heptachlor	<0.0020	*	0.0020	0.00083	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
Heptachlor epoxide	<0.0020		0.0020	0.00070	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
Methoxychlor	<0.0098		0.0098	0.00038	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1
Toxaphene	<0.020		0.020	0.0083	mg/Kg	☼	11/29/12 16:45	12/04/12 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		53 - 142	11/29/12 16:45	12/04/12 20:41	1
Tetrachloro-m-xylene	60		43 - 122	11/29/12 16:45	12/04/12 20:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.2	0.16	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-4

Lab Sample ID: 500-52473-8

Date Collected: 11/15/12 09:15

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.4		0.60	0.13	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Barium	20		0.60	0.071	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Beryllium	0.30		0.24	0.018	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Boron	6.2		3.0	0.56	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Cadmium	0.11	J	0.12	0.030	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Calcium	99000	B	120	21	mg/Kg	☼	11/19/12 09:35	11/30/12 17:39	10
Chromium	8.3		0.60	0.10	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Cobalt	5.0		0.30	0.031	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Copper	12		0.60	0.16	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Iron	9500		12	5.2	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Lead	6.8		0.30	0.10	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Magnesium	41000	B	6.0	1.2	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Manganese	290		0.60	0.085	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Nickel	12		0.60	0.13	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Potassium	1100		30	3.4	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Selenium	0.45	J	0.60	0.17	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Sodium	320	B	60	11	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Thallium	<0.60		0.60	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Vanadium	13	B	0.30	0.046	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1
Zinc	35		1.2	0.41	mg/Kg	☼	11/19/12 09:35	11/29/12 21:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27	J	0.50	0.010	mg/L		11/28/12 15:30	11/29/12 21:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/29/12 21:16	1
Boron	0.088	J	0.50	0.050	mg/L		11/28/12 15:30	11/29/12 21:16	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		11/28/12 15:30	11/29/12 21:16	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:16	1
Cobalt	0.027		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 21:16	1
Copper	0.026		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:16	1
Iron	23		0.20	0.20	mg/L		11/28/12 15:30	11/29/12 21:16	1
Lead	0.011		0.0075	0.0050	mg/L		11/28/12 15:30	11/29/12 21:16	1
Manganese	5.0		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:16	1
Nickel	0.049		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:16	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/29/12 21:16	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 21:16	1
Zinc	0.23		0.10	0.020	mg/L		11/28/12 15:30	11/29/12 21:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 17:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 17:40	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J B ^	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B02-4

Lab Sample ID: 500-52473-8

Date Collected: 11/15/12 09:15

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 81.3

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.018	0.0070	mg/Kg	☼	12/03/12 16:00	12/04/12 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.76		0.200	0.200	SU			11/21/12 09:36	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B03

Lab Sample ID: 500-52473-9

Date Collected: 11/15/12 09:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0012	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00085	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	11/15/12 09:25	11/21/12 06:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		76 - 120	11/15/12 09:25	11/21/12 06:57	1
Dibromofluoromethane	106		73 - 122	11/15/12 09:25	11/21/12 06:57	1
1,2-Dichloroethane-d4 (Surr)	108		74 - 123	11/15/12 09:25	11/21/12 06:57	1
Toluene-d8 (Surr)	112		72 - 122	11/15/12 09:25	11/21/12 06:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B03

Lab Sample ID: 500-52473-9

Date Collected: 11/15/12 09:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B03

Lab Sample ID: 500-52473-9

Date Collected: 11/15/12 09:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/29/12 07:12	12/08/12 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	80		30 - 110	11/29/12 07:12	12/08/12 15:47	1
Phenol-d5	83		31 - 110	11/29/12 07:12	12/08/12 15:47	1
Nitrobenzene-d5	81		30 - 115	11/29/12 07:12	12/08/12 15:47	1
2-Fluorobiphenyl	85		30 - 119	11/29/12 07:12	12/08/12 15:47	1
2,4,6-Tribromophenol	99		35 - 137	11/29/12 07:12	12/08/12 15:47	1
Terphenyl-d14	105		36 - 134	11/29/12 07:12	12/08/12 15:47	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00081	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
alpha-BHC	<0.0020		0.0020	0.00050	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
alpha-Chlordane	<0.0020		0.0020	0.00099	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
beta-BHC	<0.0020	*	0.0020	0.00061	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
delta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
Endosulfan I	<0.0020		0.0020	0.00086	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
Endrin	<0.0020	*	0.0020	0.00027	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
gamma-BHC (Lindane)	<0.0020	*	0.0020	0.00042	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
gamma-Chlordane	<0.0020	*	0.0020	0.00051	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
Heptachlor	<0.0020	*	0.0020	0.00082	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
Heptachlor epoxide	<0.0020		0.0020	0.00070	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
Methoxychlor	<0.0097		0.0097	0.00038	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1
Toxaphene	<0.020		0.020	0.0082	mg/Kg	☼	11/29/12 16:45	12/04/12 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		53 - 142	11/29/12 16:45	12/04/12 21:57	1
Tetrachloro-m-xylene	55		43 - 122	11/29/12 16:45	12/04/12 21:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B03

Lab Sample ID: 500-52473-9

Date Collected: 11/15/12 09:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		0.56	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Barium	110		0.56	0.067	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Beryllium	0.49		0.22	0.016	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Boron	1.5	J	2.8	0.52	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Cadmium	0.071	J	0.11	0.028	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Calcium	1900	B	11	2.0	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Chromium	14		0.56	0.094	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Cobalt	11		0.28	0.029	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Copper	8.5		0.56	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Iron	14000		11	4.9	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Lead	12		0.28	0.097	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Magnesium	2400	B	5.6	1.1	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Manganese	620		0.56	0.079	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Nickel	14		0.56	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Potassium	750		28	3.2	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Selenium	0.55	J	0.56	0.16	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Sodium	52	J B	56	10	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Vanadium	28	B	0.28	0.043	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1
Zinc	39		1.1	0.39	mg/Kg	☼	11/19/12 09:35	11/29/12 21:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49	J	0.50	0.010	mg/L		11/28/12 15:30	11/29/12 21:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/29/12 21:22	1
Boron	0.073	J	0.50	0.050	mg/L		11/28/12 15:30	11/29/12 21:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/29/12 21:22	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:22	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 21:22	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:22	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/29/12 21:22	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/29/12 21:22	1
Manganese	0.028		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:22	1
Nickel	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:22	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/29/12 21:22	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 21:22	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/29/12 21:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 17:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 17:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J B	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B03

Lab Sample ID: 500-52473-9

Date Collected: 11/15/12 09:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.6

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.017	0.0067	mg/Kg	☼	12/03/12 16:00	12/04/12 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.46		0.200	0.200	SU			11/20/12 09:23	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B04

Lab Sample ID: 500-52473-10

Date Collected: 11/15/12 09:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 97.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0020	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	11/15/12 09:30	11/21/12 07:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		76 - 120	11/15/12 09:30	11/21/12 07:20	1
Dibromofluoromethane	110		73 - 122	11/15/12 09:30	11/21/12 07:20	1
1,2-Dichloroethane-d4 (Surr)	111		74 - 123	11/15/12 09:30	11/21/12 07:20	1
Toluene-d8 (Surr)	113		72 - 122	11/15/12 09:30	11/21/12 07:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.16		0.16	0.052	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Bis(2-chloroethyl)ether	<0.16		0.16	0.048	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
1,3-Dichlorobenzene	<0.16		0.16	0.034	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
1,4-Dichlorobenzene	<0.16		0.16	0.034	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
1,2-Dichlorobenzene	<0.16		0.16	0.036	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B04

Lab Sample ID: 500-52473-10

Date Collected: 11/15/12 09:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 97.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.16		0.16	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
2,2'-oxybis[1-chloropropane]	<0.16		0.16	0.036	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
N-Nitrosodi-n-propylamine	<0.16		0.16	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Hexachloroethane	<0.16		0.16	0.035	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
2-Chlorophenol	<0.16		0.16	0.047	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Nitrobenzene	<0.032		0.032	0.010	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Bis(2-chloroethoxy)methane	<0.16		0.16	0.036	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
1,2,4-Trichlorobenzene	<0.16		0.16	0.037	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Isophorone	<0.16		0.16	0.036	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
2,4-Dimethylphenol	<0.32		0.32	0.10	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Hexachlorobutadiene	<0.16		0.16	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Naphthalene	<0.032		0.032	0.0063	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
2,4-Dichlorophenol	<0.32		0.32	0.099	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
4-Chloroaniline	<0.66		0.66	0.099	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
2,4,6-Trichlorophenol	<0.32		0.32	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
2,4,5-Trichlorophenol	<0.32		0.32	0.093	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Hexachlorocyclopentadiene	<0.66		0.66	0.15	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
2-Methylnaphthalene	<0.16		0.16	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
2-Nitroaniline	<0.16		0.16	0.059	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
2-Chloronaphthalene	<0.16		0.16	0.037	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
4-Chloro-3-methylphenol	<0.32		0.32	0.16	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
2,6-Dinitrotoluene	<0.16		0.16	0.039	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
2-Nitrophenol	<0.32		0.32	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
3-Nitroaniline	<0.32		0.32	0.063	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Dimethyl phthalate	<0.16		0.16	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
2,4-Dinitrophenol	<0.66		0.66	0.17	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Acenaphthylene	<0.032		0.032	0.0075	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
2,4-Dinitrotoluene	<0.16		0.16	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Acenaphthene	<0.032		0.032	0.0097	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Dibenzofuran	<0.16		0.16	0.039	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
4-Nitrophenol	<0.66		0.66	0.18	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Fluorene	<0.032		0.032	0.0074	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
4-Nitroaniline	<0.32		0.32	0.067	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
4-Bromophenyl phenyl ether	<0.16		0.16	0.036	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Hexachlorobenzene	<0.066		0.066	0.0064	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Diethyl phthalate	<0.16		0.16	0.054	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
4-Chlorophenyl phenyl ether	<0.16		0.16	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Pentachlorophenol	<0.66		0.66	0.17	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
N-Nitrosodiphenylamine	<0.16		0.16	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
4,6-Dinitro-2-methylphenol	<0.32		0.32	0.079	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Phenanthrene	<0.032		0.032	0.014	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Anthracene	<0.032		0.032	0.0077	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Carbazole	<0.16		0.16	0.046	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Di-n-butyl phthalate	<0.16		0.16	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Fluoranthene	<0.032		0.032	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Pyrene	<0.032		0.032	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Butyl benzyl phthalate	<0.16		0.16	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Benzo[a]anthracene	<0.032		0.032	0.0068	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Chrysene	<0.032		0.032	0.0074	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B04

Lab Sample ID: 500-52473-10

Date Collected: 11/15/12 09:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 97.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.16		0.16	0.027	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Bis(2-ethylhexyl) phthalate	<0.16		0.16	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Di-n-octyl phthalate	<0.16		0.16	0.066	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Benzo[b]fluoranthene	<0.032		0.032	0.0063	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Benzo[k]fluoranthene	<0.032		0.032	0.0078	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Benzo[a]pyrene	<0.032		0.032	0.0059	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Indeno[1,2,3-cd]pyrene	<0.032		0.032	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Dibenz(a,h)anthracene	<0.032		0.032	0.0091	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
Benzo[g,h,i]perylene	<0.032		0.032	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1
3 & 4 Methylphenol	<0.16		0.16	0.062	mg/Kg	☼	11/29/12 07:12	12/08/12 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		30 - 110	11/29/12 07:12	12/08/12 16:04	1
Phenol-d5	84		31 - 110	11/29/12 07:12	12/08/12 16:04	1
Nitrobenzene-d5	81		30 - 115	11/29/12 07:12	12/08/12 16:04	1
2-Fluorobiphenyl	81		30 - 119	11/29/12 07:12	12/08/12 16:04	1
2,4,6-Tribromophenol	96		35 - 137	11/29/12 07:12	12/08/12 16:04	1
Terphenyl-d14	96		36 - 134	11/29/12 07:12	12/08/12 16:04	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0017		0.0017	0.00068	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
alpha-BHC	<0.0017		0.0017	0.00041	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
alpha-Chlordane	<0.0017		0.0017	0.00082	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
beta-BHC	<0.0017	*	0.0017	0.00050	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
4,4'-DDD	<0.0017		0.0017	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
4,4'-DDE	<0.0017		0.0017	0.00027	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
4,4'-DDT	<0.0017		0.0017	0.00086	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
delta-BHC	<0.0017		0.0017	0.00051	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
Dieldrin	<0.0017		0.0017	0.00022	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
Endosulfan I	<0.0017		0.0017	0.00071	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
Endosulfan II	<0.0017		0.0017	0.00026	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
Endosulfan sulfate	<0.0017		0.0017	0.00030	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
Endrin	<0.0017	*	0.0017	0.00023	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
Endrin aldehyde	<0.0017		0.0017	0.00027	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
Endrin ketone	<0.0017		0.0017	0.00037	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
gamma-BHC (Lindane)	<0.0017	*	0.0017	0.00035	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
gamma-Chlordane	<0.0017	*	0.0017	0.00043	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
Heptachlor	<0.0017	*	0.0017	0.00068	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
Heptachlor epoxide	<0.0017		0.0017	0.00058	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
Methoxychlor	<0.0081		0.0081	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1
Toxaphene	<0.016		0.016	0.0069	mg/Kg	☼	11/29/12 16:45	12/04/12 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	86		53 - 142	11/29/12 16:45	12/04/12 22:16	1
Tetrachloro-m-xylene	64		43 - 122	11/29/12 16:45	12/04/12 22:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.0	0.13	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B04

Lab Sample ID: 500-52473-10

Date Collected: 11/15/12 09:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 97.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.4		0.50	0.11	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Barium	23		0.50	0.060	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Beryllium	0.22		0.20	0.015	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Boron	3.6		2.5	0.47	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Cadmium	0.079	J	0.10	0.025	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Calcium	63000	B	100	18	mg/Kg	☼	11/19/12 09:35	11/30/12 17:51	10
Chromium	5.9		0.50	0.084	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Cobalt	5.0		0.25	0.026	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Copper	12		0.50	0.14	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Iron	10000		10	4.4	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Lead	8.8		0.25	0.086	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Magnesium	32000	B	5.0	0.97	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Manganese	260		0.50	0.071	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Nickel	12		0.50	0.11	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Potassium	560		25	2.8	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Selenium	0.39	J	0.50	0.14	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Sodium	130	B	50	9.2	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Thallium	<0.50		0.50	0.13	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Vanadium	15	B	0.25	0.038	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1
Zinc	36		1.0	0.34	mg/Kg	☼	11/19/12 09:35	11/29/12 21:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J	0.50	0.010	mg/L		11/28/12 15:30	11/29/12 21:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/29/12 21:43	1
Boron	0.061	J	0.50	0.050	mg/L		11/28/12 15:30	11/29/12 21:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/29/12 21:43	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:43	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 21:43	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:43	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/29/12 21:43	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/29/12 21:43	1
Manganese	0.98		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:43	1
Nickel	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:43	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/29/12 21:43	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 21:43	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/29/12 21:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 17:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 17:44	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J B	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B04

Lab Sample ID: 500-52473-10

Date Collected: 11/15/12 09:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 97.2

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0063	mg/Kg	☼	12/03/12 16:00	12/04/12 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.71		0.200	0.200	SU			11/20/12 09:26	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B04 DUP

Lab Sample ID: 500-52473-11

Date Collected: 11/15/12 09:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	11/15/12 09:35	11/21/12 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		76 - 120	11/15/12 09:35	11/21/12 00:54	1
Dibromofluoromethane	103		73 - 122	11/15/12 09:35	11/21/12 00:54	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/15/12 09:35	11/21/12 00:54	1
Toluene-d8 (Surr)	102		72 - 122	11/15/12 09:35	11/21/12 00:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B04 DUP

Lab Sample ID: 500-52473-11

Date Collected: 11/15/12 09:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Dibenzofuran	<0.19		0.19	0.047	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B04 DUP

Lab Sample ID: 500-52473-11

Date Collected: 11/15/12 09:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Benzo[a]pyrene	<0.038		0.038	0.0071	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/29/12 07:12	12/08/12 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	1	X	30 - 110	11/29/12 07:12	12/08/12 16:21	1
Phenol-d5	5	X	31 - 110	11/29/12 07:12	12/08/12 16:21	1
Nitrobenzene-d5	0.3	X	30 - 115	11/29/12 07:12	12/08/12 16:21	1
2-Fluorobiphenyl	12	X	30 - 119	11/29/12 07:12	12/08/12 16:21	1
2,4,6-Tribromophenol	89		35 - 137	11/29/12 07:12	12/08/12 16:21	1
Terphenyl-d14	87		36 - 134	11/29/12 07:12	12/08/12 16:21	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00083	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
alpha-BHC	<0.0020		0.0020	0.00051	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
alpha-Chlordane	<0.0020		0.0020	0.0010	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
beta-BHC	<0.0020	*	0.0020	0.00062	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
4,4'-DDD	<0.0020		0.0020	0.00040	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
4,4'-DDE	<0.0020		0.0020	0.00033	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
4,4'-DDT	<0.0020		0.0020	0.0011	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
delta-BHC	<0.0020		0.0020	0.00063	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
Endosulfan I	<0.0020		0.0020	0.00087	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
Endrin	<0.0020	*	0.0020	0.00028	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
Endrin aldehyde	<0.0020		0.0020	0.00034	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
Endrin ketone	<0.0020		0.0020	0.00045	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
gamma-BHC (Lindane)	<0.0020	*	0.0020	0.00043	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
gamma-Chlordane	<0.0020	*	0.0020	0.00052	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
Heptachlor	<0.0020	*	0.0020	0.00084	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
Heptachlor epoxide	<0.0020		0.0020	0.00071	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
Methoxychlor	<0.0099		0.0099	0.00039	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1
Toxaphene	<0.020		0.020	0.0084	mg/Kg	☼	11/29/12 16:45	12/04/12 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		53 - 142	11/29/12 16:45	12/04/12 22:35	1
Tetrachloro-m-xylene	59		43 - 122	11/29/12 16:45	12/04/12 22:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B04 DUP

Lab Sample ID: 500-52473-11

Date Collected: 11/15/12 09:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		0.57	0.13	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Barium	80		0.57	0.068	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Beryllium	0.59		0.23	0.017	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Boron	0.96	J	2.9	0.53	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Cadmium	0.038	J	0.11	0.028	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Calcium	1900	B	11	2.0	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Chromium	14		0.57	0.096	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Cobalt	11		0.29	0.030	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Copper	15		0.57	0.16	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Iron	18000		11	5.0	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Lead	13		0.29	0.099	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Magnesium	2700	B	5.7	1.1	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Manganese	540		0.57	0.081	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Nickel	19		0.57	0.13	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Potassium	600		29	3.2	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Selenium	0.59		0.57	0.16	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Sodium	46	J B	57	11	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Vanadium	27	B	0.29	0.044	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1
Zinc	49		1.1	0.39	mg/Kg	☼	11/19/12 09:35	11/29/12 21:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.35	J	0.50	0.010	mg/L		11/28/12 15:30	11/29/12 21:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/29/12 21:49	1
Boron	0.071	J	0.50	0.050	mg/L		11/28/12 15:30	11/29/12 21:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/29/12 21:49	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:49	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 21:49	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:49	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/29/12 21:49	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/29/12 21:49	1
Manganese	0.012	J	0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:49	1
Nickel	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/29/12 21:49	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/29/12 21:49	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/29/12 21:49	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/29/12 21:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 17:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 17:45	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00015	J B	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:59	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B04 DUP

Lab Sample ID: 500-52473-11

Date Collected: 11/15/12 09:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.4

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.017	0.0066	mg/Kg	☼	12/03/12 16:00	12/04/12 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.43		0.200	0.200	SU			11/20/12 09:30	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B06-1

Lab Sample ID: 500-52473-14

Date Collected: 11/15/12 09:55

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0012	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00085	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	11/15/12 09:55	11/21/12 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		76 - 120	11/15/12 09:55	11/21/12 02:02	1
Dibromofluoromethane	106		73 - 122	11/15/12 09:55	11/21/12 02:02	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/15/12 09:55	11/21/12 02:02	1
Toluene-d8 (Surr)	101		72 - 122	11/15/12 09:55	11/21/12 02:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B06-1

Lab Sample ID: 500-52473-14

Date Collected: 11/15/12 09:55

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Naphthalene	<0.039		0.039	0.0077	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Fluoranthene	0.021	J	0.039	0.016	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Pyrene	0.017	J	0.039	0.014	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Benzo[a]anthracene	0.0090	J	0.039	0.0083	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Chrysene	0.011	J	0.039	0.0090	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B06-1

Lab Sample ID: 500-52473-14

Date Collected: 11/15/12 09:55

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Benzo[b]fluoranthene	0.012	J	0.039	0.0077	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Benzo[k]fluoranthene	<0.039		0.039	0.0095	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Benzo[a]pyrene	0.0096	J	0.039	0.0072	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	11/29/12 07:12	12/08/12 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		30 - 110				11/29/12 07:12	12/08/12 17:13	1
Phenol-d5	82		31 - 110				11/29/12 07:12	12/08/12 17:13	1
Nitrobenzene-d5	72		30 - 115				11/29/12 07:12	12/08/12 17:13	1
2-Fluorobiphenyl	81		30 - 119				11/29/12 07:12	12/08/12 17:13	1
2,4,6-Tribromophenol	96		35 - 137				11/29/12 07:12	12/08/12 17:13	1
Terphenyl-d14	91		36 - 134				11/29/12 07:12	12/08/12 17:13	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021	0.00086	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
alpha-BHC	<0.0021		0.0021	0.00053	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
alpha-Chlordane	<0.0021		0.0021	0.0010	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
beta-BHC	<0.0021	*	0.0021	0.00064	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
4,4'-DDD	<0.0021		0.0021	0.00041	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
4,4'-DDE	<0.0021		0.0021	0.00034	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
4,4'-DDT	<0.0021		0.0021	0.0011	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
delta-BHC	<0.0021		0.0021	0.00065	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
Dieldrin	<0.0021		0.0021	0.00028	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
Endosulfan I	<0.0021		0.0021	0.00091	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
Endosulfan II	<0.0021		0.0021	0.00034	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
Endosulfan sulfate	<0.0021		0.0021	0.00038	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
Endrin	<0.0021	*	0.0021	0.00029	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
Endrin aldehyde	<0.0021		0.0021	0.00035	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
Endrin ketone	<0.0021		0.0021	0.00047	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
gamma-BHC (Lindane)	<0.0021	*	0.0021	0.00045	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
gamma-Chlordane	<0.0021	*	0.0021	0.00054	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
Heptachlor	<0.0021	*	0.0021	0.00087	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
Heptachlor epoxide	<0.0021		0.0021	0.00074	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
Methoxychlor	<0.010		0.010	0.00040	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
Toxaphene	<0.021		0.021	0.0087	mg/Kg	☼	11/29/12 16:45	12/04/12 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		53 - 142				11/29/12 16:45	12/04/12 23:32	1
Tetrachloro-m-xylene	46		43 - 122				11/29/12 16:45	12/04/12 23:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B06-1

Lab Sample ID: 500-52473-14

Date Collected: 11/15/12 09:55

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.4		0.58	0.13	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Barium	53		0.58	0.070	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Beryllium	0.42		0.23	0.017	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Boron	2.5	J	2.9	0.54	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Cadmium	0.090	J	0.12	0.029	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Calcium	3000	B	12	2.1	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Chromium	14		0.58	0.098	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Cobalt	3.8		0.29	0.031	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Copper	8.4		0.58	0.16	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Iron	8800		12	5.1	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Lead	10		0.29	0.10	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Magnesium	2700	B	5.8	1.1	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Manganese	47		0.58	0.082	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Nickel	11		0.58	0.13	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Potassium	670		29	3.3	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Selenium	0.23	J	0.58	0.17	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Sodium	730	B	58	11	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Vanadium	21	B	0.29	0.044	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1
Zinc	43		1.2	0.40	mg/Kg	☼	11/19/12 09:35	11/29/12 22:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J	0.50	0.010	mg/L		11/28/12 15:30	11/30/12 11:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/30/12 11:56	1
Boron	0.14	J	0.50	0.050	mg/L		11/28/12 15:30	11/30/12 11:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/30/12 11:56	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 11:56	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 11:56	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 11:56	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/30/12 11:56	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/30/12 11:56	1
Manganese	0.18		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 11:56	1
Nickel	0.010	J	0.025	0.010	mg/L		11/28/12 15:30	11/30/12 11:56	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/30/12 11:56	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 11:56	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/30/12 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 17:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 17:54	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J B	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 11:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B06-1

Lab Sample ID: 500-52473-14

Date Collected: 11/15/12 09:55

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.3

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0074	mg/Kg	☼	12/03/12 16:00	12/04/12 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.85		0.200	0.200	SU			11/20/12 09:40	1



Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B06-2

Lab Sample ID: 500-52473-15

Date Collected: 11/15/12 10:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	11/15/12 10:05	11/21/12 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		76 - 120	11/15/12 10:05	11/21/12 02:25	1
Dibromofluoromethane	107		73 - 122	11/15/12 10:05	11/21/12 02:25	1
1,2-Dichloroethane-d4 (Surr)	94		74 - 123	11/15/12 10:05	11/21/12 02:25	1
Toluene-d8 (Surr)	104		72 - 122	11/15/12 10:05	11/21/12 02:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	11/29/12 07:12	12/08/12 17:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/29/12 07:12	12/08/12 17:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 17:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 17:30	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 17:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B06-2

Lab Sample ID: 500-52473-15

Date Collected: 11/15/12 10:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Isophorone	<0.20		0.20	0.044	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Naphthalene	<0.039		0.039	0.0077	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Phenanthrene	0.057		0.039	0.017	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Anthracene	0.013 J		0.039	0.0093	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Carbazole	<0.20		0.20	0.056	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Fluoranthene	0.17		0.039	0.016	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Pyrene	0.12		0.039	0.014	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Benzo[a]anthracene	0.069		0.039	0.0083	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1
Chrysene	0.071		0.039	0.0090	mg/Kg	*	11/29/12 07:12	12/08/12 17:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B06-2

Lab Sample ID: 500-52473-15

Date Collected: 11/15/12 10:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/29/12 07:12	12/08/12 17:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/29/12 07:12	12/08/12 17:30	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	11/29/12 07:12	12/08/12 17:30	1
Benzo[b]fluoranthene	0.074		0.039	0.0077	mg/Kg	☼	11/29/12 07:12	12/08/12 17:30	1
Benzo[k]fluoranthene	0.033	J	0.039	0.0095	mg/Kg	☼	11/29/12 07:12	12/08/12 17:30	1
Benzo[a]pyrene	0.062		0.039	0.0072	mg/Kg	☼	11/29/12 07:12	12/08/12 17:30	1
Indeno[1,2,3-cd]pyrene	0.032	J	0.039	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 17:30	1
Dibenz[a,h]anthracene	0.012	J	0.039	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 17:30	1
Benzo[g,h,i]perylene	0.038	J	0.039	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 17:30	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	11/29/12 07:12	12/08/12 17:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		30 - 110				11/29/12 07:12	12/08/12 17:30	1
Phenol-d5	85		31 - 110				11/29/12 07:12	12/08/12 17:30	1
Nitrobenzene-d5	73		30 - 115				11/29/12 07:12	12/08/12 17:30	1
2-Fluorobiphenyl	80		30 - 119				11/29/12 07:12	12/08/12 17:30	1
2,4,6-Tribromophenol	98		35 - 137				11/29/12 07:12	12/08/12 17:30	1
Terphenyl-d14	85		36 - 134				11/29/12 07:12	12/08/12 17:30	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00081	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
alpha-BHC	<0.0020		0.0020	0.00050	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
alpha-Chlordane	<0.0020		0.0020	0.00099	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
beta-BHC	<0.0020	*	0.0020	0.00061	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
delta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
Endosulfan I	<0.0020		0.0020	0.00086	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
Endrin	<0.0020	*	0.0020	0.00027	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
gamma-BHC (Lindane)	<0.0020	*	0.0020	0.00042	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
gamma-Chlordane	<0.0020	*	0.0020	0.00051	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
Heptachlor	<0.0020	*	0.0020	0.00082	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
Heptachlor epoxide	<0.0020		0.0020	0.00070	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
Methoxychlor	<0.0097		0.0097	0.00038	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
Toxaphene	<0.020		0.020	0.0083	mg/Kg	☼	11/29/12 16:45	12/04/12 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	60		53 - 142				11/29/12 16:45	12/04/12 23:51	1
Tetrachloro-m-xylene	45		43 - 122				11/29/12 16:45	12/04/12 23:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.2	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B06-2

Lab Sample ID: 500-52473-15

Date Collected: 11/15/12 10:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.8		0.58	0.13	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Barium	14		0.58	0.069	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Beryllium	0.18	J	0.23	0.017	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Boron	3.7		2.9	0.54	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Cadmium	0.12		0.12	0.029	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Calcium	69000	B	120	20	mg/Kg	☼	11/19/12 09:35	11/30/12 17:59	10
Chromium	6.0		0.58	0.096	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Cobalt	3.3		0.29	0.030	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Copper	7.4		0.58	0.16	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Iron	7000		12	5.0	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Lead	4.1		0.29	0.099	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Magnesium	31000	B	5.8	1.1	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Manganese	220		0.58	0.081	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Nickel	8.1		0.58	0.13	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Potassium	520		29	3.3	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Selenium	0.50	J	0.58	0.17	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Sodium	360	B	58	11	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Vanadium	9.9	B	0.29	0.044	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1
Zinc	23		1.2	0.40	mg/Kg	☼	11/19/12 09:35	11/29/12 22:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.33	J	0.50	0.010	mg/L		11/28/12 15:30	11/30/12 12:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/30/12 12:02	1
Boron	0.091	J	0.50	0.050	mg/L		11/28/12 15:30	11/30/12 12:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/30/12 12:02	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 12:02	1
Cobalt	0.022	J	0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 12:02	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 12:02	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/30/12 12:02	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/30/12 12:02	1
Manganese	2.2		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 12:02	1
Nickel	0.049		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 12:02	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/30/12 12:02	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 12:02	1
Zinc	0.069	J	0.10	0.020	mg/L		11/28/12 15:30	11/30/12 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 17:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 17:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J B	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 11:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B06-2

Lab Sample ID: 500-52473-15

Date Collected: 11/15/12 10:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.3

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.021		0.021	0.0079	mg/Kg	☼	12/03/12 16:00	12/04/12 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.65		0.200	0.200	SU			11/20/12 09:43	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B06-3

Lab Sample ID: 500-52473-16

Date Collected: 11/15/12 10:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0034	J	0.0037	0.0016	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Benzene	<0.0037		0.0037	0.00051	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Bromodichloromethane	<0.0037		0.0037	0.00064	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Bromoform	<0.0037		0.0037	0.00085	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Bromomethane	<0.0037		0.0037	0.0011	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Carbon disulfide	<0.0037		0.0037	0.00055	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Carbon tetrachloride	<0.0037		0.0037	0.00067	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Chlorobenzene	<0.0037		0.0037	0.00038	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Chloroethane	<0.0037		0.0037	0.0010	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Chloroform	<0.0037		0.0037	0.00043	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Chloromethane	<0.0037		0.0037	0.00078	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00052	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00049	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Dibromochloromethane	<0.0037		0.0037	0.00065	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
1,1-Dichloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
1,1-Dichloroethene	<0.0037		0.0037	0.00060	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
1,2-Dichloropropane	<0.0037		0.0037	0.00056	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.00049	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Ethylbenzene	<0.0037		0.0037	0.00075	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Methylene Chloride	<0.0037		0.0037	0.0010	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00097	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00061	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Styrene	<0.0037		0.0037	0.00049	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
1,1,1,2-Tetrachloroethane	<0.0037		0.0037	0.00075	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Tetrachloroethene	<0.0037		0.0037	0.00057	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Toluene	<0.0037		0.0037	0.00052	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00051	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.00066	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00051	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Trichloroethene	<0.0037		0.0037	0.00061	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Vinyl chloride	<0.0037		0.0037	0.00078	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1
Xylenes, Total	<0.0074		0.0074	0.00034	mg/Kg	☼	11/15/12 10:00	11/21/12 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/15/12 10:00	11/21/12 02:48	1
Dibromofluoromethane	114		73 - 122	11/15/12 10:00	11/21/12 02:48	1
1,2-Dichloroethane-d4 (Surr)	98		74 - 123	11/15/12 10:00	11/21/12 02:48	1
Toluene-d8 (Surr)	103		72 - 122	11/15/12 10:00	11/21/12 02:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B06-3

Lab Sample ID: 500-52473-16

Date Collected: 11/15/12 10:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Naphthalene	<0.035		0.035	0.0069	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Hexachlorocyclopentadiene	<0.72		0.72	0.16	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
3-Nitroaniline	<0.35		0.35	0.069	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Acenaphthylene	<0.035		0.035	0.0082	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Anthracene	<0.035		0.035	0.0084	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Benzo[a]anthracene	<0.035		0.035	0.0075	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Chrysene	<0.035		0.035	0.0080	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B06-3

Lab Sample ID: 500-52473-16

Date Collected: 11/15/12 10:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Benzo[b]fluoranthene	<0.035		0.035	0.0069	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Benzo[k]fluoranthene	<0.035		0.035	0.0085	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Benzo[a]pyrene	<0.035		0.035	0.0065	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	11/29/12 07:12	12/08/12 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		30 - 110	11/29/12 07:12	12/08/12 17:47	1
Phenol-d5	88		31 - 110	11/29/12 07:12	12/08/12 17:47	1
Nitrobenzene-d5	81		30 - 115	11/29/12 07:12	12/08/12 17:47	1
2-Fluorobiphenyl	85		30 - 119	11/29/12 07:12	12/08/12 17:47	1
2,4,6-Tribromophenol	94		35 - 137	11/29/12 07:12	12/08/12 17:47	1
Terphenyl-d14	93		36 - 134	11/29/12 07:12	12/08/12 17:47	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0018		0.0018	0.00075	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
alpha-BHC	<0.0018		0.0018	0.00046	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
alpha-Chlordane	<0.0018		0.0018	0.00092	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
beta-BHC	<0.0018	*	0.0018	0.00056	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
4,4'-DDD	<0.0018		0.0018	0.00036	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
4,4'-DDE	<0.0018		0.0018	0.00030	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
4,4'-DDT	<0.0018		0.0018	0.00095	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
delta-BHC	<0.0018		0.0018	0.00057	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
Dieldrin	<0.0018		0.0018	0.00025	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
Endosulfan I	<0.0018		0.0018	0.00079	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
Endosulfan II	<0.0018		0.0018	0.00029	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
Endosulfan sulfate	<0.0018		0.0018	0.00033	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
Endrin	<0.0018	*	0.0018	0.00025	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
Endrin aldehyde	<0.0018		0.0018	0.00030	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
Endrin ketone	<0.0018		0.0018	0.00041	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
gamma-BHC (Lindane)	<0.0018	*	0.0018	0.00039	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
gamma-Chlordane	<0.0018	*	0.0018	0.00048	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
Heptachlor	<0.0018	*	0.0018	0.00076	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
Heptachlor epoxide	<0.0018		0.0018	0.00064	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
Methoxychlor	<0.0090		0.0090	0.00035	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1
Toxaphene	<0.018		0.018	0.0076	mg/Kg	☼	11/29/12 16:45	12/05/12 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	82		53 - 142	11/29/12 16:45	12/05/12 00:11	1
Tetrachloro-m-xylene	59		43 - 122	11/29/12 16:45	12/05/12 00:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.0	0.13	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B06-3

Lab Sample ID: 500-52473-16

Date Collected: 11/15/12 10:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.3		0.50	0.11	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Barium	16		0.50	0.060	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Beryllium	0.24		0.20	0.015	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Boron	4.5		2.5	0.47	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Cadmium	0.073	J	0.10	0.025	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Calcium	80000	B	100	18	mg/Kg	☼	11/19/12 09:35	11/30/12 18:03	10
Chromium	6.3		0.50	0.084	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Cobalt	3.8		0.25	0.026	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Copper	8.7		0.50	0.14	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Iron	8600		10	4.4	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Lead	5.3		0.25	0.086	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Magnesium	31000	B	5.0	0.97	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Manganese	230		0.50	0.071	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Nickel	9.7		0.50	0.11	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Potassium	800		25	2.8	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Selenium	0.52		0.50	0.14	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Sodium	180	B	50	9.2	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Thallium	<0.50		0.50	0.13	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Vanadium	9.6	B	0.25	0.038	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1
Zinc	22		1.0	0.34	mg/Kg	☼	11/19/12 09:35	11/29/12 22:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.26	J	0.50	0.010	mg/L		11/28/12 15:30	11/30/12 12:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/30/12 12:23	1
Boron	0.072	J	0.50	0.050	mg/L		11/28/12 15:30	11/30/12 12:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/30/12 12:23	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 12:23	1
Cobalt	0.0084	J	0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 12:23	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 12:23	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/30/12 12:23	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/30/12 12:23	1
Manganese	1.8		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 12:23	1
Nickel	0.016	J	0.025	0.010	mg/L		11/28/12 15:30	11/30/12 12:23	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/30/12 12:23	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 12:23	1
Zinc	0.020	J	0.10	0.020	mg/L		11/28/12 15:30	11/30/12 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 17:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 17:56	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J B	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 11:17	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B06-3

Lab Sample ID: 500-52473-16

Date Collected: 11/15/12 10:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 90.5

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0063	mg/Kg	☼	12/03/12 16:00	12/04/12 10:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.90		0.200	0.200	SU			11/20/12 09:46	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B08

Lab Sample ID: 500-52473-21

Date Collected: 11/15/12 10:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Carbon disulfide	<0.0047		0.0047	0.00069	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Chloroform	<0.0047		0.0047	0.00053	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
1,1-Dichloroethene	<0.0047		0.0047	0.00075	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00083	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	11/15/12 10:25	11/21/12 04:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/15/12 10:25	11/21/12 04:19	1
Dibromofluoromethane	108		73 - 122	11/15/12 10:25	11/21/12 04:19	1
1,2-Dichloroethane-d4 (Surr)	94		74 - 123	11/15/12 10:25	11/21/12 04:19	1
Toluene-d8 (Surr)	100		72 - 122	11/15/12 10:25	11/21/12 04:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B08

Lab Sample ID: 500-52473-21

Date Collected: 11/15/12 10:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B08

Lab Sample ID: 500-52473-21

Date Collected: 11/15/12 10:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	11/28/12 17:09	12/08/12 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		30 - 110				11/28/12 17:09	12/08/12 18:56	1
Phenol-d5	66		31 - 110				11/28/12 17:09	12/08/12 18:56	1
Nitrobenzene-d5	63		30 - 115				11/28/12 17:09	12/08/12 18:56	1
2-Fluorobiphenyl	64		30 - 119				11/28/12 17:09	12/08/12 18:56	1
2,4,6-Tribromophenol	77		35 - 137				11/28/12 17:09	12/08/12 18:56	1
Terphenyl-d14	79		36 - 134				11/28/12 17:09	12/08/12 18:56	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00080	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
alpha-Chlordane	<0.0020		0.0020	0.00098	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
4,4'-DDD	<0.0020		0.0020	0.00038	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
Dieldrin	<0.0020		0.0020	0.00026	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
Endosulfan I	<0.0020		0.0020	0.00084	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
Endosulfan II	<0.0020		0.0020	0.00031	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
Endosulfan sulfate	<0.0020		0.0020	0.00035	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
Endrin aldehyde	<0.0020		0.0020	0.00032	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
Heptachlor	<0.0020		0.0020	0.00081	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
Methoxychlor	<0.0096		0.0096	0.00037	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
Toxaphene	<0.019		0.019	0.0081	mg/Kg	☼	11/29/12 19:23	12/05/12 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	102		53 - 142				11/29/12 19:23	12/05/12 14:51	1
Tetrachloro-m-xylene	74		43 - 122				11/29/12 19:23	12/05/12 14:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.1	0.14	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B08

Lab Sample ID: 500-52473-21

Date Collected: 11/15/12 10:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		0.54	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Barium	28		0.54	0.064	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Beryllium	0.25		0.22	0.016	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Boron	6.2		2.7	0.50	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Cadmium	0.096	J	0.11	0.027	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Calcium	110000	B	110	19	mg/Kg	☼	11/19/12 09:35	11/30/12 18:11	10
Chromium	9.3		0.54	0.090	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Cobalt	3.2		0.27	0.028	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Copper	7.1		0.54	0.15	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Iron	6800		11	4.7	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Lead	6.4		0.27	0.093	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Magnesium	52000	B	5.4	1.1	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Manganese	180		0.54	0.076	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Nickel	7.1		0.54	0.12	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Potassium	530		27	3.1	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Selenium	0.26	J	0.54	0.16	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Sodium	450	B	54	9.9	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Vanadium	11	B	0.27	0.041	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1
Zinc	25		1.1	0.37	mg/Kg	☼	11/19/12 09:35	11/29/12 22:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47	J	0.50	0.010	mg/L		11/28/12 15:30	11/30/12 12:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/30/12 12:48	1
Boron	0.093	J	0.50	0.050	mg/L		11/28/12 15:30	11/30/12 12:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/30/12 12:48	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 12:48	1
Cobalt	0.014	J	0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 12:48	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 12:48	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/30/12 12:48	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/30/12 12:48	1
Manganese	1.2		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 12:48	1
Nickel	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 12:48	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/30/12 12:48	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 12:48	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/30/12 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 18:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 18:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J B	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 11:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B08

Lab Sample ID: 500-52473-21

Date Collected: 11/15/12 10:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.5

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.018	0.0068	mg/Kg	☼	12/03/12 16:00	12/04/12 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.04		0.200	0.200	SU			11/20/12 10:03	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B09

Lab Sample ID: 500-52473-22

Date Collected: 11/15/12 10:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1
Xylenes, Total	<0.0094		0.0094	0.00042	mg/Kg	☼	11/15/12 10:30	11/21/12 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		76 - 120	11/15/12 10:30	11/21/12 04:42	1
Dibromofluoromethane	112		73 - 122	11/15/12 10:30	11/21/12 04:42	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	11/15/12 10:30	11/21/12 04:42	1
Toluene-d8 (Surr)	98		72 - 122	11/15/12 10:30	11/21/12 04:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B09

Lab Sample ID: 500-52473-22

Date Collected: 11/15/12 10:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B09

Lab Sample ID: 500-52473-22

Date Collected: 11/15/12 10:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/28/12 17:09	12/08/12 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		30 - 110	11/28/12 17:09	12/08/12 19:14	1
Phenol-d5	58		31 - 110	11/28/12 17:09	12/08/12 19:14	1
Nitrobenzene-d5	55		30 - 115	11/28/12 17:09	12/08/12 19:14	1
2-Fluorobiphenyl	64		30 - 119	11/28/12 17:09	12/08/12 19:14	1
2,4,6-Tribromophenol	68		35 - 137	11/28/12 17:09	12/08/12 19:14	1
Terphenyl-d14	77		36 - 134	11/28/12 17:09	12/08/12 19:14	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00080	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
alpha-Chlordane	<0.0020		0.0020	0.00098	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
Endosulfan I	<0.0020		0.0020	0.00085	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
Endosulfan II	<0.0020		0.0020	0.00031	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
Endosulfan sulfate	<0.0020		0.0020	0.00035	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
Heptachlor	<0.0020		0.0020	0.00081	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
Methoxychlor	<0.0096		0.0096	0.00038	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1
Toxaphene	<0.019		0.019	0.0082	mg/Kg	☼	11/29/12 19:23	12/05/12 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		53 - 142	11/29/12 19:23	12/05/12 15:49	1
Tetrachloro-m-xylene	69		43 - 122	11/29/12 19:23	12/05/12 15:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J B	1.2	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B09

Lab Sample ID: 500-52473-22

Date Collected: 11/15/12 10:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		0.58	0.13	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Barium	54		0.58	0.068	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Beryllium	0.43		0.23	0.017	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Boron	2.3	J	2.9	0.54	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Cadmium	0.091	J	0.12	0.028	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Calcium	22000	B	12	2.0	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Chromium	12		0.58	0.096	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Cobalt	6.8		0.29	0.030	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Copper	11		0.58	0.16	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Iron	13000		12	5.0	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Lead	10		0.29	0.099	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Magnesium	13000	B	5.8	1.1	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Manganese	310		0.58	0.081	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Nickel	13		0.58	0.13	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Potassium	530		29	3.3	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Selenium	0.52	J	0.58	0.17	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Sodium	430		58	11	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Vanadium	22		0.29	0.044	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1
Zinc	38		1.2	0.39	mg/Kg	☼	11/20/12 09:40	11/28/12 21:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.50		0.50	0.010	mg/L		11/28/12 15:30	11/30/12 13:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/30/12 13:02	1
Boron	0.074	J	0.50	0.050	mg/L		11/28/12 15:30	11/30/12 13:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/30/12 13:02	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:02	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 13:02	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:02	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/30/12 13:02	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/30/12 13:02	1
Manganese	1.1		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:02	1
Nickel	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:02	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/30/12 13:02	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 13:02	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/30/12 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 18:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 18:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J B	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 11:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B09

Lab Sample ID: 500-52473-22

Date Collected: 11/15/12 10:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020	0.0076	mg/Kg	☼	12/03/12 16:00	12/04/12 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.73		0.200	0.200	SU			11/20/12 10:06	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B10

Lab Sample ID: 500-52473-23

Date Collected: 11/15/12 10:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00082	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	11/15/12 10:35	11/21/12 05:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/15/12 10:35	11/21/12 05:06	1
Dibromofluoromethane	116		73 - 122	11/15/12 10:35	11/21/12 05:06	1
1,2-Dichloroethane-d4 (Surr)	97		74 - 123	11/15/12 10:35	11/21/12 05:06	1
Toluene-d8 (Surr)	101		72 - 122	11/15/12 10:35	11/21/12 05:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B10

Lab Sample ID: 500-52473-23

Date Collected: 11/15/12 10:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.056	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
4-Nitroaniline	<0.37		0.37	0.075	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Diethyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Di-n-butyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B10

Lab Sample ID: 500-52473-23

Date Collected: 11/15/12 10:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Benzo[b]fluoranthene	<0.037		0.037	0.0071	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	11/28/12 17:09	12/08/12 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		30 - 110				11/28/12 17:09	12/08/12 19:31	1
Phenol-d5	57		31 - 110				11/28/12 17:09	12/08/12 19:31	1
Nitrobenzene-d5	58		30 - 115				11/28/12 17:09	12/08/12 19:31	1
2-Fluorobiphenyl	60		30 - 119				11/28/12 17:09	12/08/12 19:31	1
2,4,6-Tribromophenol	65		35 - 137				11/28/12 17:09	12/08/12 19:31	1
Terphenyl-d14	64		36 - 134				11/28/12 17:09	12/08/12 19:31	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00082	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
alpha-BHC	<0.0020		0.0020	0.00050	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
alpha-Chlordane	<0.0020		0.0020	0.00099	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
beta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
4,4'-DDE	<0.0020		0.0020	0.00033	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
delta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
Endosulfan I	<0.0020		0.0020	0.00086	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00043	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
gamma-Chlordane	<0.0020		0.0020	0.00052	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
Heptachlor	<0.0020		0.0020	0.00082	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
Heptachlor epoxide	<0.0020		0.0020	0.00070	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
Methoxychlor	<0.0098		0.0098	0.00038	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
Toxaphene	<0.020		0.020	0.0083	mg/Kg	☼	11/29/12 19:23	12/05/12 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	91		53 - 142				11/29/12 19:23	12/05/12 16:08	1
Tetrachloro-m-xylene	69		43 - 122				11/29/12 19:23	12/05/12 16:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J B	1.1	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B10

Lab Sample ID: 500-52473-23

Date Collected: 11/15/12 10:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.5		0.55	0.12	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Barium	75		0.55	0.065	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Beryllium	0.43		0.22	0.016	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Boron	3.8		2.7	0.51	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Cadmium	0.12		0.11	0.027	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Calcium	54000	B	110	19	mg/Kg	☼	11/20/12 09:40	11/29/12 11:02	10
Chromium	12		0.55	0.092	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Cobalt	6.2		0.27	0.029	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Copper	12		0.55	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Iron	13000		11	4.8	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Lead	8.3		0.27	0.094	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Magnesium	23000	B	5.5	1.1	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Manganese	480		0.55	0.077	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Nickel	18		0.55	0.12	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Potassium	700		27	3.1	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Selenium	0.29	J	0.55	0.16	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Sodium	450		55	10	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Vanadium	21		0.27	0.042	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1
Zinc	39		1.1	0.38	mg/Kg	☼	11/20/12 09:40	11/28/12 22:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64		0.50	0.010	mg/L		11/28/12 15:30	11/30/12 13:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/30/12 13:09	1
Boron	0.076	J	0.50	0.050	mg/L		11/28/12 15:30	11/30/12 13:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/30/12 13:09	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:09	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 13:09	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:09	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/30/12 13:09	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/30/12 13:09	1
Manganese	0.49		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:09	1
Nickel	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:09	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/30/12 13:09	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 13:09	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/30/12 13:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 18:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 18:01	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J B	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 11:32	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B10

Lab Sample ID: 500-52473-23

Date Collected: 11/15/12 10:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.9

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0082	J	0.017	0.0066	mg/Kg	☼	12/03/12 16:00	12/04/12 10:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.30		0.200	0.200	SU			11/20/12 10:10	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B10 DUP

Lab Sample ID: 500-52473-24

Date Collected: 11/15/12 10:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0059		0.0059	0.0026	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Benzene	<0.0059		0.0059	0.00081	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Bromodichloromethane	<0.0059		0.0059	0.0010	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Bromoform	<0.0059		0.0059	0.0014	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Bromomethane	<0.0059		0.0059	0.0018	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
2-Butanone (MEK)	<0.0059		0.0059	0.0022	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Carbon disulfide	<0.0059		0.0059	0.00089	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Carbon tetrachloride	<0.0059		0.0059	0.0011	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Chlorobenzene	<0.0059		0.0059	0.00060	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Chloroethane	<0.0059		0.0059	0.0016	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Chloroform	<0.0059		0.0059	0.00068	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Chloromethane	<0.0059		0.0059	0.0012	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
cis-1,2-Dichloroethene	<0.0059		0.0059	0.00084	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
cis-1,3-Dichloropropene	<0.0059		0.0059	0.00078	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Dibromochloromethane	<0.0059		0.0059	0.0010	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
1,1-Dichloroethane	<0.0059		0.0059	0.00094	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
1,2-Dichloroethane	<0.0059		0.0059	0.00088	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
1,1-Dichloroethene	<0.0059		0.0059	0.00096	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
1,2-Dichloropropane	<0.0059		0.0059	0.00090	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
1,3-Dichloropropene, Total	<0.0059		0.0059	0.00078	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Ethylbenzene	<0.0059		0.0059	0.0012	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
2-Hexanone	<0.0059		0.0059	0.0017	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Methylene Chloride	<0.0059		0.0059	0.0016	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
4-Methyl-2-pentanone (MIBK)	<0.0059		0.0059	0.0016	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Methyl tert-butyl ether	<0.0059		0.0059	0.00098	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Styrene	<0.0059		0.0059	0.00078	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
1,1,1,2-Tetrachloroethane	<0.0059		0.0059	0.0012	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Tetrachloroethene	<0.0059		0.0059	0.00091	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Toluene	<0.0059		0.0059	0.00083	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
trans-1,2-Dichloroethene	<0.0059		0.0059	0.00082	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
trans-1,3-Dichloropropene	<0.0059		0.0059	0.0011	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
1,1,1-Trichloroethane	<0.0059		0.0059	0.00089	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
1,1,2-Trichloroethane	<0.0059		0.0059	0.00081	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Trichloroethene	<0.0059		0.0059	0.00098	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Vinyl chloride	<0.0059		0.0059	0.0012	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1
Xylenes, Total	<0.012		0.012	0.00054	mg/Kg	☼	11/15/12 10:45	11/21/12 05:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		76 - 120	11/15/12 10:45	11/21/12 05:28	1
Dibromofluoromethane	112		73 - 122	11/15/12 10:45	11/21/12 05:28	1
1,2-Dichloroethane-d4 (Surr)	97		74 - 123	11/15/12 10:45	11/21/12 05:28	1
Toluene-d8 (Surr)	103		72 - 122	11/15/12 10:45	11/21/12 05:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B10 DUP

Lab Sample ID: 500-52473-24

Date Collected: 11/15/12 10:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Naphthalene	<0.035		0.035	0.0069	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Hexachlorocyclopentadiene	<0.72		0.72	0.17	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
3-Nitroaniline	<0.35		0.35	0.069	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Acenaphthylene	<0.035		0.035	0.0082	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Anthracene	<0.035		0.035	0.0084	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Benzo[a]anthracene	<0.035		0.035	0.0075	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Chrysene	<0.035		0.035	0.0080	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B10 DUP

Lab Sample ID: 500-52473-24

Date Collected: 11/15/12 10:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Benzo[b]fluoranthene	<0.035		0.035	0.0069	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Benzo[k]fluoranthene	<0.035		0.035	0.0085	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Benzo[a]pyrene	<0.035		0.035	0.0065	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Dibenz(a,h)anthracene	<0.035		0.035	0.010	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	11/28/12 17:09	12/08/12 19:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		30 - 110				11/28/12 17:09	12/08/12 19:48	1
Phenol-d5	66		31 - 110				11/28/12 17:09	12/08/12 19:48	1
Nitrobenzene-d5	61		30 - 115				11/28/12 17:09	12/08/12 19:48	1
2-Fluorobiphenyl	65		30 - 119				11/28/12 17:09	12/08/12 19:48	1
2,4,6-Tribromophenol	77		35 - 137				11/28/12 17:09	12/08/12 19:48	1
Terphenyl-d14	69		36 - 134				11/28/12 17:09	12/08/12 19:48	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00077	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
alpha-BHC	<0.0019		0.0019	0.00047	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
alpha-Chlordane	<0.0019		0.0019	0.00094	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
beta-BHC	<0.0019		0.0019	0.00058	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
4,4'-DDD	<0.0019		0.0019	0.00037	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
4,4'-DDE	<0.0019		0.0019	0.00031	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
4,4'-DDT	<0.0019		0.0019	0.00098	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
delta-BHC	<0.0019		0.0019	0.00059	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
Dieldrin	<0.0019		0.0019	0.00026	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
Endosulfan I	<0.0019		0.0019	0.00082	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
Endosulfan II	<0.0019		0.0019	0.00030	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
Endosulfan sulfate	<0.0019		0.0019	0.00034	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
Endrin	<0.0019		0.0019	0.00026	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
Endrin aldehyde	<0.0019		0.0019	0.00031	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
Endrin ketone	<0.0019		0.0019	0.00042	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00040	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
gamma-Chlordane	<0.0019		0.0019	0.00049	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
Heptachlor	<0.0019		0.0019	0.00078	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
Heptachlor epoxide	<0.0019		0.0019	0.00066	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
Methoxychlor	<0.0093		0.0093	0.00036	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
Toxaphene	<0.019		0.019	0.0079	mg/Kg	☼	11/29/12 19:23	12/05/12 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		53 - 142				11/29/12 19:23	12/05/12 16:27	1
Tetrachloro-m-xylene	64		43 - 122				11/29/12 19:23	12/05/12 16:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.19	J B	1.1	0.14	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B10 DUP

Lab Sample ID: 500-52473-24

Date Collected: 11/15/12 10:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0		0.54	0.12	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Barium	41		0.54	0.064	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Beryllium	0.31		0.22	0.016	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Boron	2.2	J	2.7	0.50	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Cadmium	0.077	J	0.11	0.027	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Calcium	11000	B	11	1.9	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Chromium	9.3		0.54	0.090	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Cobalt	3.1		0.27	0.028	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Copper	7.8		0.54	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Iron	10000		11	4.7	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Lead	9.4		0.27	0.093	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Magnesium	7200	B	5.4	1.0	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Manganese	150		0.54	0.076	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Nickel	8.3		0.54	0.12	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Potassium	460		27	3.0	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Selenium	0.33	J	0.54	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Sodium	310		54	9.8	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Vanadium	19		0.27	0.041	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1
Zinc	27		1.1	0.37	mg/Kg	☼	11/20/12 09:40	11/28/12 22:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.66		0.50	0.010	mg/L		11/28/12 15:30	11/30/12 13:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/30/12 13:15	1
Boron	0.20	J	0.50	0.050	mg/L		11/28/12 15:30	11/30/12 13:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/30/12 13:15	1
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:15	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 13:15	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:15	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/30/12 13:15	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/30/12 13:15	1
Manganese	0.51		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:15	1
Nickel	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:15	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/30/12 13:15	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 13:15	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/30/12 13:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 18:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 18:04	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J B	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 11:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-1-B10 DUP

Lab Sample ID: 500-52473-24

Date Collected: 11/15/12 10:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 87.5

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0071	mg/Kg	☼	12/03/12 16:00	12/04/12 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.12		0.200	0.200	SU			11/20/12 10:13	1

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

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

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



CHAIN OF CUSTODY RECORD

500-52473

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	Project Name: <u>1L72</u>	COC No.: <u>1</u> of <u>6</u>
	Address: 2417 Bond Street University Park, IL 60484	Project No.: <u>IDOT2011-055</u>	Lab Job No.:
Phone: 708-534-5200	Contact: Dick Wright	TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Sample Temp: <u>42, 39, 41</u>
Contact: Dick Wright	email: <u>richard.wright@testamericainc.com</u>	Sampler: <u>50 / CM</u>	

Special Instructions:
See Table 2 for complete parameter lists and reporting limit requirements.
*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

ANALYSES											
VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals / Heavy	TCLP/SPLP Metals / Heavy	pH	% Solids	Waste Characterization	

Matrix Key:
W - Water
S - Soil
SL - Sludge
SE - Sediment
L - Leachate
DW - Drinking Water
OL - Oil
O - Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals / Heavy	TCLP/SPLP Metals / Heavy	pH	% Solids	Waste Characterization	Comments
1	2470-1-B01-1	11/15/12	8:30	S	X	X			X		X	X	X	X		0-5'
2	2470-1-B01-2		8:35													5-10'
3	2470-1-B01-3		8:40													10-15'
4	2470-1-B01-4		8:45													15-21'
5	2470-1-B02-1		9:00													0-5'
6	2470-1-B02-2		9:05													5-10'
7	2470-1-B02-3		9:10													10-15'
8	2470-1-B02-4		9:15													15-21'
9	2470-1-B03		9:25													0-4'
10	2470-1-B04		9:30													0-5'
11	2470-1-B04 DUP		9:35													0-5'
12	2470-1-B05-1	11/15/12	9:40		X	X			X		X	X	X	X		0-5'

Relinquished by: <i>[Signature]</i>	Date/Time: <u>11/15/12 1:30</u>	Received by: <i>[Signature]</i>	Date/Time: <u>11/16/12 1:00</u>
Relinquished by: <i>[Signature]</i>	Date/Time: <u>11/16/12 1:50</u>	Received by: <i>[Signature]</i>	Date/Time: <u>11/16/12 1:50</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:



CHAIN OF CUSTODY RECORD

500-52473

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory	Project Name: <u>1L72</u>	COC No.: <u>2</u> of <u>6</u>
	Lab: Test America - Chicago	Project No.: <u>IDOT2011-055</u>	Lab Job No.:
	Address: 2417 Bond Street	TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Sample Temp:
	University Park, IL 60484		
	Phone: 708-534-5200	Sampler: <u>SS/CM</u>	
	Contact: Dick Wright		
	email: <u>richard.wright@testamericainc.com</u>		

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

ANALYSES										
VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals / Inorg	pH	% Solids	Waste Characterization

Matrix Key:
W - Water
S - Soil
SL - Sludge
SE - Sediment
L - Leachate
DW - Drinking Water
OL - Oil
O - Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals / Inorg	pH	% Solids	Waste Characterization	Comments
13	2470-1-B05-2	11/15	9:45	S	✓	✓			✓		✓	✓	✓	✓		5-10'
14	2470-1-B06-1		9:55	↓												0-4'
15	2470-1-B06-2		10:00	↓												4-8'
16	2470-1-B06-3		10:05	S												8-12'
17	2470-1-G01	11/15	9:00	W												10-85'
18	2470-1-B07-1		10:10	S												0-4'
19	2470-1-B07-2		10:15	↓												4-8'
20	2470-1-B07-3		10:20	↓												8-12'
21	2470-1-B08		10:25	↓												0-4'
22	2470-1-B09		10:30	↓												0-4'
23	2470-1-B10		10:35	↓												0-4'
24	2470-1-B10DUP	11/15	10:45	S	✓	✓			✓		✓	✓	✓	✓		0-4'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/15/12 1:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/16/12 12:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/16/12 15:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/16/12 15:00</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:

November 19, 2013

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



RE: IDOT2011-055

WorkOrder: 13110452

Dear Colleen Grey:

TEKLAB, INC received 22 samples on 11/8/2013 3:05:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,



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



Report Contents

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

This reporting package includes the following:

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Chain of Custody	Appended

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Abbr Definition

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

Qualifiers

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



Case Narrative

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Cooler Receipt Temp: 5.2 °C

Locations and Accreditations

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

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



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-001

Client Sample ID: 2470-1-B01-1

Matrix: SOLID

Collection Date: 11/07/2013 8:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0446	mg/L	1	11/14/2013 12:04	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-002

Client Sample ID: 2470-1-B01-2

Matrix: SOLID

Collection Date: 11/07/2013 8:13

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0183	mg/L	1	11/14/2013 12:07	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-003

Client Sample ID: 2470-1-B01-3

Matrix: SOLID

Collection Date: 11/07/2013 8:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0368	mg/L	1	11/14/2013 12:18	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-004

Client Sample ID: 2470-1-B01-4

Matrix: SOLID

Collection Date: 11/07/2013 8:18

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0193	mg/L	1	11/14/2013 12:30	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-005

Client Sample ID: 2470-1-B02-1

Matrix: SOLID

Collection Date: 11/07/2013 8:28

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0342	mg/L	1	11/14/2013 12:41	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-006

Client Sample ID: 2470-1-B02-2

Matrix: SOLID

Collection Date: 11/07/2013 8:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0267	mg/L	1	11/14/2013 12:44	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.
Client Project: IDOT2011-055
Lab ID: 13110452-007
Matrix: SOLID

Work Order: 13110452
Report Date: 19-Nov-13
Client Sample ID: 2470-1-B02-3
Collection Date: 11/07/2013 8:32

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0512	mg/L	1	11/14/2013 12:48	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-008

Client Sample ID: 2470-1-B02-4

Matrix: SOLID

Collection Date: 11/07/2013 8:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0291	mg/L	1	11/14/2013 12:52	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-009

Client Sample ID: 2470-1-B03

Matrix: SOLID

Collection Date: 11/07/2013 8:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0389	mg/L	1	11/14/2013 12:55	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-010

Client Sample ID: 2470-1-B04

Matrix: SOLID

Collection Date: 11/07/2013 8:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0194	mg/L	1	11/18/2013 16:22	93791
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.206	mg/L	1	11/14/2013 12:59	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-011

Client Sample ID: 2470-1-B04 DUP

Matrix: SOLID

Collection Date: 11/07/2013 8:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.021	mg/L	1	11/18/2013 16:28	93791
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.273	mg/L	1	11/14/2013 13:03	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.
Client Project: IDOT2011-055
Lab ID: 13110452-012
Matrix: SOLID

Work Order: 13110452
Report Date: 19-Nov-13
Client Sample ID: 2470-1-B06-1
Collection Date: 11/07/2013 12:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0586	mg/L	1	11/14/2013 13:06	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-013

Client Sample ID: 2470-1-B06-2

Matrix: SOLID

Collection Date: 11/07/2013 12:47

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.016	0.05		0.089	mg/L	10	11/14/2013 14:26	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-014

Client Sample ID: 2470-1-B06-3

Matrix: SOLID

Collection Date: 11/07/2013 12:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0449	mg/L	1	11/14/2013 13:14	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-015

Client Sample ID: 2470-1-B08

Matrix: SOLID

Collection Date: 11/07/2013 9:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.008	0.025		0.064	mg/L	5	11/14/2013 14:29	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-016

Client Sample ID: 2470-1-B09

Matrix: SOLID

Collection Date: 11/07/2013 9:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0423	mg/L	1	11/18/2013 16:46	93791
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.249	mg/L	1	11/14/2013 13:28	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-017

Client Sample ID: 2470-1-B10

Matrix: SOLID

Collection Date: 11/07/2013 9:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0883	mg/L	1	11/18/2013 16:52	93791
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.159	mg/L	1	11/14/2013 13:32	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-018

Client Sample ID: 2470-1-B10 DUP

Matrix: SOLID

Collection Date: 11/07/2013 9:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0089	mg/L	1	11/18/2013 16:58	93791
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.174	mg/L	1	11/14/2013 13:36	93693



CHAIN OF CUSTODY RECORD

Client Contact	Laboratory
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com
Special Instructions:	
See Table 2 for complete parameter lists and minimum reporting limits.	
* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.	
** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.	
Project Name: <u>GILBERTS, KAYCO</u>	COC No.: <u>1</u> of <u>62</u>
Project No.: <u>1DOT2011-055</u>	Lab Job No.: <u>13110452</u>
TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Sample Temp: <u>5.2</u>
Sampler: <u>CRM</u>	Matrix Key:

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments					
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization	SPLP Mn/** TCLP Mn			
1310452-001	2470-1-B01-1	11/7	8:10	S																0-5
002	2470-1-B01-2		8:13																	S-10
003	2470-1-B01-3		8:15																	10-15
004	2470-1-B01-4		8:18																	15-21
005	2470-1-B02-1		8:28																	0-5
006	2470-1-B02-2		8:30																	S-10
007	2470-1-B02-3		8:32																	10-15
008	2470-1-B02-4		8:35																	15-21
009	2470-1-B03		8:50																	0-4
010	2470-1-B04		8:53																	0-5
011	2470-1-B04 DUP		8:55																	0-5
012	2470-1-B06-1		12:15	S																0-4

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/7 2:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/7 2:35</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11-8-0955</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/8/13 1035</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/8/13 1505</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/8/13 1505</u>



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Laboratory Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com		Project Name: <u>Stierberts, Kane Co</u> Project No.: <u>IDOT 2011-055</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>CRM</u>		COC No.: <u>2</u> of <u>2</u> Lab Job No.: Sample Temp.: <u>13/10/52</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.				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	SPLP Mn/** TCLP Mn	Comments		
13110452-213	2470-1-B06-2	11/7	9:17:47	S											X		4-8		
214	2470-1-B06-3		12:50														8-12		
215	2470-1-B08		9:30														0-7		
216	2470-1-B09		9:25														0-7		
217	2470-1-B10		9:20														0-7		
218	2470-1-B10 DUP		9:22														0-7		
219	2470-1-B11		1:20														0-7		
220	2470-1-B12		1:15														0-7		
221	2470-1-B13		1:10														0-7		
222	2470-1-B14		1:05	S											X		0-7		
Relinquished by: <u>[Signature]</u>				Date/Time	11/7	2:30	Received by: <u>[Signature]</u>										Date/Time	11/7/13	2:30
Relinquished by: <u>[Signature]</u>				Date/Time	11-8-	0955	Received by: <u>[Signature]</u>										Date/Time	11/8/13	10:35
Relinquished by: <u>[Signature]</u>				Date/Time	11/13	1505	Received by: <u>[Signature]</u>										Date/Time	11/13/13	1505



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 341 (IL 72) Office Phone Number, if available: _____

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

16N032 Big Timber Rd (Southeast Quadrant of IL 72/Big Timber Rd Intersection)

City: Gilberts State: IL Zip Code: 60136

County: Kane Township: Rutland

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

Latitude: 42.09714 Longitude: -88.40114
(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: _____

Zip Code: 60196-1096 Phone: _____

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 341 (IL 72)

Latitude: 42.09714 Longitude: -88.40114

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 2470-1-B11 through -B14 were sampled adjacent to ISGS site No. 2470V-2. See Figures 3 and 4, and Tables 5b and 7 of the revised preliminary site investigation report for sampling details.

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

TestAmerica analytical report - TestAmerica job ID: 500-52475-1, & Teklab, Inc. Environmental Laboratory Work Order: 13110452

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

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

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

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

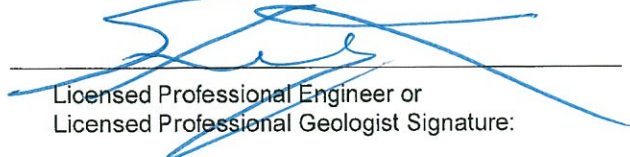
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

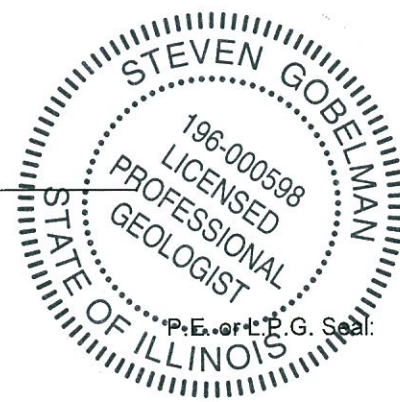
Phone: (217)-785-7525

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

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

9/19/14
 Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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.

ISGS Site 2470V-2

Agricultural Fields

Sample ID	2470-1-B11	2470-1-B12	2470-1-B13	2470-1-B14	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4	0-4	0-4	0-4						
Sample Date	11/15/2012	11/15/2012	11/15/2012	11/15/2012						
PID	0	0	0	0						
Sample pH	7.72	7.75	7.66	7.59						
Matrix	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.										

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-52475-1
Client Project/Site: IDOT - IL 72 - Kane Co. - WO 055

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

Attn: Mike Nelson



Authorized for release by:
12/10/2012 4:43:20 PM

Richard Wright
Project Manager II
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 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B14

Lab Sample ID: 500-52475-22

Date Collected: 11/16/12 11:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Carbon tetrachloride	<0.0049		0.0049	0.00088	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Dibromochloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
1,1-Dichloroethene	<0.0049		0.0049	0.00078	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	11/16/12 11:05	11/21/12 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/16/12 11:05	11/21/12 16:30	1
Dibromofluoromethane	107		73 - 122	11/16/12 11:05	11/21/12 16:30	1
1,2-Dichloroethane-d4 (Surr)	93		74 - 123	11/16/12 11:05	11/21/12 16:30	1
Toluene-d8 (Surr)	99		72 - 122	11/16/12 11:05	11/21/12 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B14

Lab Sample ID: 500-52475-22

Date Collected: 11/16/12 11:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Fluoranthene	0.027	J	0.036	0.015	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Pyrene	0.026	J	0.036	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Benzo[a]anthracene	0.015	J	0.036	0.0077	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Chrysene	0.017	J	0.036	0.0083	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B14

Lab Sample ID: 500-52475-22

Date Collected: 11/16/12 11:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Benzo[b]fluoranthene	0.021	J	0.036	0.0071	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Benzo[k]fluoranthene	0.011	J	0.036	0.0087	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Benzo[a]pyrene	0.015	J	0.036	0.0067	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	11/29/12 07:15	12/08/12 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		30 - 110				11/29/12 07:15	12/08/12 18:39	1
Phenol-d5	77		31 - 110				11/29/12 07:15	12/08/12 18:39	1
Nitrobenzene-d5	59		30 - 115				11/29/12 07:15	12/08/12 18:39	1
2-Fluorobiphenyl	75		30 - 119				11/29/12 07:15	12/08/12 18:39	1
2,4,6-Tribromophenol	75		35 - 137				11/29/12 07:15	12/08/12 18:39	1
Terphenyl-d14	100		36 - 134				11/29/12 07:15	12/08/12 18:39	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0018		0.0018	0.00074	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
alpha-BHC	<0.0018		0.0018	0.00045	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
alpha-Chlordane	<0.0018		0.0018	0.00090	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
beta-BHC	<0.0018		0.0018	0.00055	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
4,4'-DDD	<0.0018		0.0018	0.00036	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
4,4'-DDE	<0.0018		0.0018	0.00030	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
4,4'-DDT	<0.0018		0.0018	0.00094	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
delta-BHC	<0.0018		0.0018	0.00056	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
Dieldrin	<0.0018		0.0018	0.00024	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
Endosulfan I	<0.0018		0.0018	0.00078	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
Endosulfan II	<0.0018		0.0018	0.00029	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
Endosulfan sulfate	<0.0018		0.0018	0.00033	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
Endrin	<0.0018		0.0018	0.00025	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
Endrin aldehyde	<0.0018		0.0018	0.00030	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
Endrin ketone	<0.0018		0.0018	0.00040	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
gamma-BHC (Lindane)	<0.0018		0.0018	0.00039	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
gamma-Chlordane	<0.0018		0.0018	0.00047	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
Heptachlor	<0.0018		0.0018	0.00075	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
Heptachlor epoxide	<0.0018		0.0018	0.00063	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
Methoxychlor	<0.0089		0.0089	0.00035	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
Toxaphene	<0.018		0.018	0.0075	mg/Kg	☼	11/29/12 19:23	12/05/12 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	97		53 - 142				11/29/12 19:23	12/05/12 16:46	1
Tetrachloro-m-xylene	95		43 - 122				11/29/12 19:23	12/05/12 16:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B14

Lab Sample ID: 500-52475-22

Date Collected: 11/16/12 11:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.3		0.54	0.12	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Barium	45		0.54	0.064	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Beryllium	0.45		0.22	0.016	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Boron	2.5	J	2.7	0.50	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Cadmium	0.19		0.11	0.027	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Calcium	26000	B	11	1.9	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Chromium	8.7		0.54	0.090	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Cobalt	3.6		0.27	0.028	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Copper	12		0.54	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Iron	8600		10	4.5	mg/Kg	☼	11/29/12 16:00	11/30/12 11:59	1
Lead	7.5		0.27	0.093	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Magnesium	17000	B	5.4	1.0	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Manganese	330		0.54	0.076	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Nickel	11		0.54	0.12	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Potassium	770		27	3.1	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Selenium	<0.54		0.54	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Sodium	380	B	54	9.9	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Thallium	0.30	J	0.54	0.14	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Vanadium	17		0.27	0.041	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1
Zinc	30		1.1	0.37	mg/Kg	☼	11/20/12 16:00	11/29/12 14:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55		0.50	0.010	mg/L		11/27/12 15:00	12/01/12 02:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	12/01/12 02:19	1
Boron	0.13	J B	0.50	0.050	mg/L		11/27/12 15:00	12/01/12 02:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	12/01/12 02:19	1
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 02:19	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 02:19	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 02:19	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	12/01/12 02:19	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	12/01/12 02:19	1
Manganese	0.45		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 02:19	1
Nickel	0.013	J	0.025	0.010	mg/L		11/27/12 15:00	12/01/12 02:19	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	12/01/12 02:19	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 02:19	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	12/01/12 02:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:48	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J *	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 11:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B14

Lab Sample ID: 500-52475-22

Date Collected: 11/16/12 11:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 89.3

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0071	mg/Kg	☼	11/29/12 17:00	11/30/12 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.59		0.200	0.200	SU			11/21/12 10:34	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B13

Lab Sample ID: 500-52475-23

Date Collected: 11/16/12 11:10

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0074		0.0049	0.0021	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1
Xylenes, Total	<0.0098		0.0098	0.00045	mg/Kg	☼	11/16/12 11:10	11/21/12 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		76 - 120	11/16/12 11:10	11/21/12 16:53	1
Dibromofluoromethane	108		73 - 122	11/16/12 11:10	11/21/12 16:53	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/16/12 11:10	11/21/12 16:53	1
Toluene-d8 (Surr)	98		72 - 122	11/16/12 11:10	11/21/12 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B13

Lab Sample ID: 500-52475-23

Date Collected: 11/16/12 11:10

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.052	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Phenanthrene	0.030	J	0.040	0.017	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Fluoranthene	0.069		0.040	0.017	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Pyrene	0.058		0.040	0.015	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Benzo[a]anthracene	0.040		0.040	0.0085	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Chrysene	0.041		0.040	0.0092	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B13

Lab Sample ID: 500-52475-23

Date Collected: 11/16/12 11:10

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Benzo[b]fluoranthene	0.049		0.040	0.0079	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Benzo[k]fluoranthene	0.028	J	0.040	0.0097	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Benzo[a]pyrene	0.042		0.040	0.0074	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.040	0.014	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
Benzo[g,h,i]perylene	0.024	J	0.040	0.014	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	11/29/12 07:12	12/08/12 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		30 - 110	11/29/12 07:12	12/08/12 13:12	1
Phenol-d5	74		31 - 110	11/29/12 07:12	12/08/12 13:12	1
Nitrobenzene-d5	66		30 - 115	11/29/12 07:12	12/08/12 13:12	1
2-Fluorobiphenyl	71		30 - 119	11/29/12 07:12	12/08/12 13:12	1
2,4,6-Tribromophenol	81		35 - 137	11/29/12 07:12	12/08/12 13:12	1
Terphenyl-d14	77		36 - 134	11/29/12 07:12	12/08/12 13:12	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021	0.00086	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
alpha-BHC	<0.0021		0.0021	0.00053	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
alpha-Chlordane	<0.0021		0.0021	0.0011	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
beta-BHC	<0.0021		0.0021	0.00065	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
4,4'-DDD	<0.0021		0.0021	0.00041	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
4,4'-DDE	<0.0021		0.0021	0.00035	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
4,4'-DDT	<0.0021		0.0021	0.0011	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
delta-BHC	<0.0021		0.0021	0.00066	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
Dieldrin	<0.0021		0.0021	0.00029	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
Endosulfan I	<0.0021		0.0021	0.00091	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
Endosulfan II	<0.0021		0.0021	0.00034	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
Endosulfan sulfate	<0.0021		0.0021	0.00038	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
Endrin	<0.0021		0.0021	0.00029	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
Endrin aldehyde	<0.0021		0.0021	0.00035	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
Endrin ketone	<0.0021		0.0021	0.00047	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
gamma-BHC (Lindane)	<0.0021		0.0021	0.00045	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
gamma-Chlordane	<0.0021		0.0021	0.00055	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
Heptachlor	<0.0021		0.0021	0.00087	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
Heptachlor epoxide	<0.0021		0.0021	0.00074	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
Methoxychlor	<0.010		0.010	0.00040	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1
Toxaphene	<0.021		0.021	0.0088	mg/Kg	☼	11/29/12 19:23	12/05/12 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		53 - 142	11/29/12 19:23	12/05/12 17:05	1
Tetrachloro-m-xylene	51		43 - 122	11/29/12 19:23	12/05/12 17:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B13

Lab Sample ID: 500-52475-23

Date Collected: 11/16/12 11:10

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.6		0.59	0.13	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Barium	130		0.59	0.071	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Beryllium	0.68		0.24	0.017	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Boron	2.2	J	3.0	0.55	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Cadmium	0.22		0.12	0.029	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Calcium	16000	B	12	2.1	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Chromium	16		0.59	0.099	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Cobalt	8.5		0.30	0.031	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Copper	18		0.59	0.16	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Iron	19000		12	5.2	mg/Kg	☼	11/29/12 16:00	11/30/12 12:03	1
Lead	11		0.30	0.10	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Magnesium	11000	B	5.9	1.2	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Manganese	560		0.59	0.084	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Nickel	17		0.59	0.13	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Potassium	940		30	3.4	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Sodium	420	B	59	11	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Thallium	0.42	J	0.59	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Vanadium	30		0.30	0.045	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1
Zinc	40		1.2	0.41	mg/Kg	☼	11/20/12 16:00	11/29/12 14:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.94		0.50	0.010	mg/L		11/27/12 15:00	11/28/12 20:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	11/28/12 20:25	1
Boron	0.054	J	0.50	0.050	mg/L		11/27/12 15:00	11/28/12 20:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	11/28/12 20:25	1
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/28/12 20:25	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	11/28/12 20:25	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/28/12 20:25	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	11/28/12 20:25	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	11/28/12 20:25	1
Manganese	0.17		0.025	0.010	mg/L		11/27/12 15:00	11/28/12 20:25	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/28/12 20:25	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	11/28/12 20:25	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	11/28/12 20:25	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	11/28/12 20:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 10:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B13

Lab Sample ID: 500-52475-23

Date Collected: 11/16/12 11:10

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.3

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0073	mg/Kg	☼	11/29/12 17:00	11/30/12 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.66		0.200	0.200	SU			11/21/12 10:37	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B12

Lab Sample ID: 500-52475-24

Date Collected: 11/16/12 11:15

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0020	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00060	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00060	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Styrene	<0.0045		0.0045	0.00060	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Toluene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	11/16/12 11:15	11/21/12 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		76 - 120	11/16/12 11:15	11/21/12 17:16	1
Dibromofluoromethane	104		73 - 122	11/16/12 11:15	11/21/12 17:16	1
1,2-Dichloroethane-d4 (Surr)	89		74 - 123	11/16/12 11:15	11/21/12 17:16	1
Toluene-d8 (Surr)	95		72 - 122	11/16/12 11:15	11/21/12 17:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B12

Lab Sample ID: 500-52475-24

Date Collected: 11/16/12 11:15

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B12

Lab Sample ID: 500-52475-24

Date Collected: 11/16/12 11:15

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/30/12 07:17	12/08/12 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	94		30 - 110	11/30/12 07:17	12/08/12 19:00	1
Phenol-d5	84		31 - 110	11/30/12 07:17	12/08/12 19:00	1
Nitrobenzene-d5	70		30 - 115	11/30/12 07:17	12/08/12 19:00	1
2-Fluorobiphenyl	88		30 - 119	11/30/12 07:17	12/08/12 19:00	1
2,4,6-Tribromophenol	75		35 - 137	11/30/12 07:17	12/08/12 19:00	1
Terphenyl-d14	103		36 - 134	11/30/12 07:17	12/08/12 19:00	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00080	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
alpha-Chlordane	<0.0020		0.0020	0.00097	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
4,4'-DDD	<0.0020		0.0020	0.00038	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
delta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
Dieldrin	<0.0020		0.0020	0.00026	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
Endosulfan I	<0.0020		0.0020	0.00084	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
Endosulfan II	<0.0020		0.0020	0.00031	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
Endosulfan sulfate	<0.0020		0.0020	0.00035	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
Endrin aldehyde	<0.0020		0.0020	0.00032	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
Endrin ketone	<0.0020		0.0020	0.00043	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
gamma-Chlordane	<0.0020		0.0020	0.00050	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
Heptachlor	<0.0020		0.0020	0.00081	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
Heptachlor epoxide	<0.0020		0.0020	0.00068	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
Methoxychlor	<0.0095		0.0095	0.00037	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1
Toxaphene	<0.019		0.019	0.0081	mg/Kg	☼	11/29/12 19:23	12/05/12 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		53 - 142	11/29/12 19:23	12/05/12 17:24	1
Tetrachloro-m-xylene	55		43 - 122	11/29/12 19:23	12/05/12 17:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B12

Lab Sample ID: 500-52475-24

Date Collected: 11/16/12 11:15

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.0		0.54	0.12	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Barium	69		0.54	0.064	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Beryllium	0.64		0.21	0.016	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Boron	1.4	J	2.7	0.50	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Cadmium	0.047	J	0.11	0.027	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Calcium	1600	B	11	1.9	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Chromium	14		0.54	0.090	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Cobalt	5.0		0.27	0.028	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Copper	14		0.54	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Iron	13000		11	4.9	mg/Kg	☼	11/29/12 16:00	11/30/12 12:15	1
Lead	9.0		0.27	0.092	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Magnesium	2100	B	5.4	1.0	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Manganese	360		0.54	0.076	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Nickel	17		0.54	0.12	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Potassium	680		27	3.0	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Selenium	<0.54		0.54	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Sodium	140	B	54	9.8	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Thallium	0.54		0.54	0.14	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Vanadium	23		0.27	0.041	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1
Zinc	36		1.1	0.37	mg/Kg	☼	11/20/12 16:00	11/29/12 14:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J	0.50	0.010	mg/L		11/27/12 15:00	11/28/12 20:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	11/28/12 20:32	1
Boron	0.068	J	0.50	0.050	mg/L		11/27/12 15:00	11/28/12 20:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	11/28/12 20:32	1
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/28/12 20:32	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	11/28/12 20:32	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/28/12 20:32	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	11/28/12 20:32	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	11/28/12 20:32	1
Manganese	0.014	J	0.025	0.010	mg/L		11/27/12 15:00	11/28/12 20:32	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/28/12 20:32	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	11/28/12 20:32	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	11/28/12 20:32	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	11/28/12 20:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00010	J	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 10:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B12

Lab Sample ID: 500-52475-24

Date Collected: 11/16/12 11:15

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.7

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.019	0.0072	mg/Kg	☼	11/29/12 17:00	11/30/12 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.75		0.200	0.200	SU			11/21/12 10:41	1

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B11

Lab Sample ID: 500-52475-25

Date Collected: 11/16/12 11:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	11/16/12 11:25	11/21/12 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		76 - 120	11/16/12 11:25	11/21/12 17:39	1
Dibromofluoromethane	107		73 - 122	11/16/12 11:25	11/21/12 17:39	1
1,2-Dichloroethane-d4 (Surr)	93		74 - 123	11/16/12 11:25	11/21/12 17:39	1
Toluene-d8 (Surr)	99		72 - 122	11/16/12 11:25	11/21/12 17:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B11

Lab Sample ID: 500-52475-25

Date Collected: 11/16/12 11:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.052	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.099	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Anthracene	<0.040		0.040	0.0096	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Chrysene	<0.040		0.040	0.0092	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B11

Lab Sample ID: 500-52475-25

Date Collected: 11/16/12 11:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Benzo[b]fluoranthene	<0.040		0.040	0.0079	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Benzo[k]fluoranthene	<0.040		0.040	0.0097	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Benzo[a]pyrene	<0.040		0.040	0.0074	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	11/30/12 07:17	12/08/12 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	91		30 - 110	11/30/12 07:17	12/08/12 19:21	1
Phenol-d5	77		31 - 110	11/30/12 07:17	12/08/12 19:21	1
Nitrobenzene-d5	70		30 - 115	11/30/12 07:17	12/08/12 19:21	1
2-Fluorobiphenyl	87		30 - 119	11/30/12 07:17	12/08/12 19:21	1
2,4,6-Tribromophenol	72		35 - 137	11/30/12 07:17	12/08/12 19:21	1
Terphenyl-d14	99		36 - 134	11/30/12 07:17	12/08/12 19:21	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021	0.00087	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
alpha-BHC	<0.0021		0.0021	0.00053	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
alpha-Chlordane	<0.0021		0.0021	0.0011	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
beta-BHC	<0.0021		0.0021	0.00065	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
4,4'-DDD	<0.0021		0.0021	0.00042	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
4,4'-DDE	<0.0021		0.0021	0.00035	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
4,4'-DDT	<0.0021		0.0021	0.0011	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
delta-BHC	<0.0021		0.0021	0.00066	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
Dieldrin	<0.0021		0.0021	0.00029	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
Endosulfan I	<0.0021		0.0021	0.00091	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
Endosulfan II	<0.0021		0.0021	0.00034	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
Endosulfan sulfate	<0.0021		0.0021	0.00038	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
Endrin	<0.0021		0.0021	0.00029	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
Endrin aldehyde	<0.0021		0.0021	0.00035	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
Endrin ketone	<0.0021		0.0021	0.00047	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
gamma-BHC (Lindane)	<0.0021		0.0021	0.00045	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
gamma-Chlordane	<0.0021		0.0021	0.00055	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
Heptachlor	<0.0021		0.0021	0.00088	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
Heptachlor epoxide	<0.0021		0.0021	0.00074	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
Methoxychlor	<0.010		0.010	0.00041	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1
Toxaphene	<0.021		0.021	0.0088	mg/Kg	☼	11/29/12 19:23	12/05/12 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	97		53 - 142	11/29/12 19:23	12/05/12 17:43	1
Tetrachloro-m-xylene	87		43 - 122	11/29/12 19:23	12/05/12 17:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B11

Lab Sample ID: 500-52475-25

Date Collected: 11/16/12 11:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.3		0.59	0.13	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Barium	110		0.59	0.071	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Beryllium	0.95		0.24	0.017	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Boron	2.3	J	3.0	0.55	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Cadmium	0.075	J	0.12	0.029	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Calcium	2200	B	12	2.1	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Chromium	19		0.59	0.099	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Cobalt	14		0.30	0.031	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Copper	17		0.59	0.16	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Iron	17000		12	5.1	mg/Kg	☼	11/29/12 16:00	11/30/12 12:19	1
Lead	15		0.30	0.10	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Magnesium	3300	B	5.9	1.2	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Manganese	1200		5.9	0.84	mg/Kg	☼	11/20/12 16:00	11/29/12 15:25	10
Nickel	19		0.59	0.13	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Potassium	1000		30	3.4	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Sodium	2100	B	59	11	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Thallium	0.68		0.59	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Vanadium	35		0.30	0.045	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1
Zinc	47		1.2	0.41	mg/Kg	☼	11/20/12 16:00	11/29/12 14:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.33	J	0.50	0.010	mg/L		11/27/12 15:00	11/28/12 21:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	11/28/12 21:11	1
Boron	0.090	J	0.50	0.050	mg/L		11/27/12 15:00	11/28/12 21:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	11/28/12 21:11	1
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/28/12 21:11	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	11/28/12 21:11	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/28/12 21:11	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	11/28/12 21:11	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	11/28/12 21:11	1
Manganese	0.043		0.025	0.010	mg/L		11/27/12 15:00	11/28/12 21:11	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/28/12 21:11	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	11/28/12 21:11	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	11/28/12 21:11	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	11/28/12 21:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:57	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 10:35	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-1-B11

Lab Sample ID: 500-52475-25

Date Collected: 11/16/12 11:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 79.8

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.020	0.0077	mg/Kg	☼	11/29/12 17:00	11/30/12 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.72		0.200	0.200	SU			11/21/12 10:44	1

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

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

Glossary

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



CHAIN OF CUSTODY RECORD

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>1L72</u> Project No.: <u>IDOT2011-055</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>SSICM</u>	COC No.: <u>5</u> of <u>6</u> Lab Job No.: <u>500-52475</u> Sample Temp:
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Special Instructions:
See Table 2 for complete parameter lists and reporting limit requirements.
*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

					ANALYSES										Matrix Key: W - Water S - Soil SL - Sludge SE - Sediment L - Leachate DW - Drinking Water OL - Oil O - Other	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals / Inorg	TCLP*SPLP Metals	pH	% Solids		Waste Characterization

13	2470-2-B04	11/16/12	10:05	S	✓	✓					✓	✓	✓	✓		0-6'
14	2470-2-B04 DUP		10:15	S	↓	↓					↓	↓	↓	↓		0-6'
15	2470-2-B05		10:20	S	↓	↓					↓	↓	↓	↓		0-6'
16	2470-2-B06		10:25	S	↓	↓					↓	↓	↓	↓		0-5'
17	2470-2-B09		10:30	S	↓	↓					↓	↓	↓	↓		0-5'
18	2470-2-B09 DUP		10:35	S	↓	↓					↓	↓	↓	↓		0-5'
19	2470-2-B10		10:45	S	↓	↓					↓	↓	↓	↓		0-4'
20	2470-2-B11		10:50	S	↓	↓					↓	↓	↓	↓		0-4'
21	2470-2-B12		11:00	S	↓	↓					↓	↓	↓	↓		0-4'
22	2470-1-B14		11:05	S	↓	↓			X		↓	↓	↓	↓		0-4'
23	2470-1-B13		11:10	S	↓	↓			X		↓	↓	↓	↓		0-4'
24	2470-1-B12		11:15	S	✓	✓			X		✓	✓	✓	✓		0-4'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/16/12 1:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/16/12 1:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/16/12 1500</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/16/12 1500</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com					Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com					Project Name: <u>1172</u>					COC No.: <u>6 of 6</u>																																																																																																																																																																																																																																																																																																																															
										Project No.: <u>IDOT2011-055</u>					Lab Job No.: <u>500-52475</u>																																																																																																																																																																																																																																																																																																																															
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November 19, 2013

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



RE: IDOT2011-055

WorkOrder: 13110452

Dear Colleen Grey:

TEKLAB, INC received 22 samples on 11/8/2013 3:05:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,



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



Report Contents

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

This reporting package includes the following:

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Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	27
Receiving Check List	29
Chain of Custody	Appended

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Abbr Definition

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

Qualifiers

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



Case Narrative

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Cooler Receipt Temp: 5.2 °C

Locations and Accreditations

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

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



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-019

Client Sample ID: 2470-1-B11

Matrix: SOLID

Collection Date: 11/07/2013 13:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0406	mg/L	1	11/18/2013 17:16	93791
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.236	mg/L	1	11/14/2013 13:39	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-020

Client Sample ID: 2470-1-B12

Matrix: SOLID

Collection Date: 11/07/2013 13:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0305	mg/L	1	11/18/2013 17:22	93791
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.016	0.05		0.356	mg/L	10	11/14/2013 14:33	93693



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-021

Client Sample ID: 2470-1-B13

Matrix: SOLID

Collection Date: 11/07/2013 13:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0172	mg/L	1	11/18/2013 17:28	93791
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.153	mg/L	1	11/14/2013 13:54	93694



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110452

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110452-022

Client Sample ID: 2470-1-B14

Matrix: SOLID

Collection Date: 11/07/2013 13:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0316	mg/L	1	11/18/2013 17:34	93791
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.193	mg/L	1	11/14/2013 13:58	93694



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: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com		Project Name: <u>Stierberts, Kane Co</u> Project No.: <u>IDOT 2011-055</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>CRM</u>		COC No.: <u>2</u> of <u>2</u> Lab Job No.: Sample Temp.: <u>13/10/52</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.				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	SPLP Mn/** TCLP Mn	Comments		
13110452-213	2470-1-B06-2	11/7	9:17:47	S											X		4-8		
214	2470-1-B06-3		12:50														8-12		
215	2470-1-B08		9:30														0-7		
216	2470-1-B09		9:25														0-7		
217	2470-1-B10		9:20														0-7		
218	2470-1-B10 DUP		9:22														0-7		
219	2470-1-B11		1:20														0-7		
220	2470-1-B12		1:15														0-7		
221	2470-1-B13		1:10														0-7		
222	2470-1-B14		1:05	S											X		0-7		
Relinquished by: <u>[Signature]</u>				Date/Time	11/7	2:30	Received by: <u>[Signature]</u>										Date/Time	11/7/13	2:30
Relinquished by: <u>[Signature]</u>				Date/Time	11-8-0955	Received by: <u>[Signature]</u>										Date/Time	11/8/13	10:35	
Relinquished by: <u>[Signature]</u>				Date/Time	11/13 1505	Received by: <u>[Signature]</u>										Date/Time	11/13/13	1505	



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 341 (IL 72) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
16N032 Big Timber Road (Southwest Quadrant of IL 72/Big Timber Rd Intersection)

City: Gilberts State: IL Zip Code: 60136

County: Kane Township: Rutland

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

Latitude: 42.09684 Longitude: -88.40285
(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: _____

Zip Code: 60196-1096 Phone: _____

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 341 (IL 72)
 Latitude: 42.09684 Longitude: -88.40285

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 2470-2-B01 through -B06, and -B08 through -B12 were sampled adjacent to ISGS site No. 2470V-3. See Figure 4, and Tables 5c and 7 of the revised preliminary site investigation report for sampling details.

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

TestAmerica analytical report - TestAmerica job ID: 500-52473-1, 500-52475-1 & Teklab, Inc. Environmental Laboratory Work Order: 13110453

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

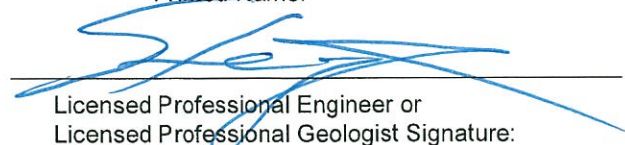
I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance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

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

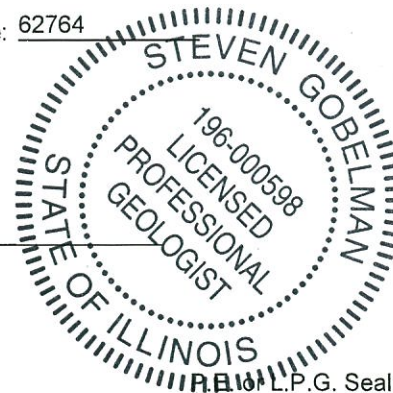
Company Name: Illinois Department of Transportation, Bureau of Design and Environment
 Street Address: 2300 South Dirksen Parkway
 City: Springfield State: IL Zip Code: 62764
 Phone: (217)-785-7525

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

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

2/19/14
 Date:



P.E. 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 2470V-3

Residences

Sample ID	2470-2-B01	2470-2-B02	2470-2-B03	2470-2-B04	2470-2-B04 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)	0-4	0-5	0-5	0-6	0-6						
Sample Date	11/15/2012	11/15/2012	11/15/2012	11/15/2012	11/15/2012						
PID	0	0	0	0	0						
Sample pH	7.85	8.52	8.99	8.07	7.8						
Matrix	Soil	Soil	Soil	Soil	Soil						
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)pyrene	ND	ND	ND	ND	ND	0.09	0.09	0.98	1.3	2.1	NA

Sample ID	2470-2-B05	2470-2-B06	2470-2-B08-1	2470-2-B08-2	2470-2-B08-3	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-6	0-5	0-5	5-10	10-15						
Sample Date	11/15/2012	11/15/2012	11/15/2012	11/15/2012	11/15/2012						
PID	0	0	0	0	0						
Sample pH	7.78	7.84	7.74	7.81	7.7						
Matrix	Soil	Soil	Soil	Soil	Soil						
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)pyrene	ND	ND	J 0.015	ND	ND	0.09	0.09	0.98	1.3	2.1	NA

Sample ID	2470-2-B09	2470-2-B09 DUP	2470-2-B10	2470-2-B11	2470-2-B12	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only	
Sample Depth (ft)	0-5	0-5	0-4	0-4	0-4							
Sample Date	11/15/2012	11/15/2012	11/15/2012	11/15/2012	11/15/2012							
PID	0	0	0	0	0							
Sample pH	7.58	7.41	7.47	7.97	8.11							
Matrix	Soil	Soil	Soil	Soil	Soil							
Semivolatile Organic Compounds (mg/kg)												
Benzo(a)pyrene	ND	ND	ND	0.055	0.43	1,2,*	0.09	0.09	0.98	1.3	2.1	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-52475-1
Client Project/Site: IDOT - IL 72 - Kane Co. - WO 055

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

Attn: Mike Nelson



Authorized for release by:
12/10/2012 4:43:20 PM

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

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www.testamericainc.com

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

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

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

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B01

Lab Sample ID: 500-52475-10

Date Collected: 11/16/12 09:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	11/16/12 09:45	11/20/12 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		76 - 120	11/16/12 09:45	11/20/12 19:49	1
Dibromofluoromethane	111		73 - 122	11/16/12 09:45	11/20/12 19:49	1
1,2-Dichloroethane-d4 (Surr)	100		74 - 123	11/16/12 09:45	11/20/12 19:49	1
Toluene-d8 (Surr)	103		72 - 122	11/16/12 09:45	11/20/12 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B01

Lab Sample ID: 500-52475-10

Date Collected: 11/16/12 09:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B01

Lab Sample ID: 500-52475-10

Date Collected: 11/16/12 09:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Benzo[b]fluoranthene	<0.040		0.040	0.0079	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Benzo[a]pyrene	<0.040		0.040	0.0074	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	11/29/12 07:15	12/08/12 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	95		30 - 110				11/29/12 07:15	12/08/12 14:28	1
Phenol-d5	87		31 - 110				11/29/12 07:15	12/08/12 14:28	1
Nitrobenzene-d5	72		30 - 115				11/29/12 07:15	12/08/12 14:28	1
2-Fluorobiphenyl	85		30 - 119				11/29/12 07:15	12/08/12 14:28	1
2,4,6-Tribromophenol	81		35 - 137				11/29/12 07:15	12/08/12 14:28	1
Terphenyl-d14	102		36 - 134				11/29/12 07:15	12/08/12 14:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Arsenic	8.2		0.58	0.13	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Barium	87 B		0.58	0.070	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Beryllium	0.63		0.23	0.017	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Boron	0.76 J		2.9	0.54	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Cadmium	<0.12		0.12	0.029	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Calcium	1400 B		12	2.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Chromium	14		0.58	0.098	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Cobalt	13		0.29	0.031	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Copper	17		0.58	0.16	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Iron	19000 B		12	5.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Lead	15		0.29	0.10	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Magnesium	2500 B		5.8	1.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Manganese	490 B		0.58	0.082	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Nickel	21		0.58	0.13	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Potassium	690		29	3.3	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Selenium	0.60		0.58	0.17	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Sodium	2200 B		58	11	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Vanadium	24		0.29	0.044	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1
Zinc	56 B		1.2	0.40	mg/Kg	☼	11/20/12 16:00	11/30/12 00:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.39 J		0.50	0.010	mg/L		11/27/12 15:00	12/01/12 00:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	12/01/12 00:16	1
Boron	0.15 J B		0.50	0.050	mg/L		11/27/12 15:00	12/01/12 00:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	12/01/12 00:16	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B01

Lab Sample ID: 500-52475-10

Date Collected: 11/16/12 09:45

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:16	1
Cobalt	0.0089	J	0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 00:16	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:16	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	12/01/12 00:16	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	12/01/12 00:16	1
Manganese	0.95		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:16	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:16	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	12/01/12 00:16	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 00:16	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	12/01/12 00:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:31	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J *	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 09:45	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.019	0.0073	mg/Kg	☼	12/03/12 16:00	12/04/12 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.85		0.200	0.200	SU			11/21/12 09:54	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B02

Lab Sample ID: 500-52475-11

Date Collected: 11/16/12 09:50

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 92.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0053		0.0053	0.0023	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Benzene	<0.0053		0.0053	0.00072	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Bromodichloromethane	<0.0053		0.0053	0.00091	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Carbon disulfide	<0.0053		0.0053	0.00079	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Carbon tetrachloride	<0.0053		0.0053	0.00096	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Chlorobenzene	<0.0053		0.0053	0.00053	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Chloroethane	<0.0053		0.0053	0.0014	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00069	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Dibromochloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
1,1-Dichloroethane	<0.0053		0.0053	0.00083	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
1,1-Dichloroethene	<0.0053		0.0053	0.00085	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
1,2-Dichloropropane	<0.0053		0.0053	0.00080	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00069	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00087	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Styrene	<0.0053		0.0053	0.00069	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
1,1,1,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Tetrachloroethene	<0.0053		0.0053	0.00081	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Toluene	<0.0053		0.0053	0.00074	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00094	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Trichloroethene	<0.0053		0.0053	0.00087	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	11/16/12 09:50	11/20/12 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		76 - 120	11/16/12 09:50	11/20/12 20:12	1
Dibromofluoromethane	109		73 - 122	11/16/12 09:50	11/20/12 20:12	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	11/16/12 09:50	11/20/12 20:12	1
Toluene-d8 (Surr)	101		72 - 122	11/16/12 09:50	11/20/12 20:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.055	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
1,2-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B02

Lab Sample ID: 500-52475-11

Date Collected: 11/16/12 09:50

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 92.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Hexachloroethane	<0.18		0.18	0.037	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
2-Chlorophenol	<0.18		0.18	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Naphthalene	<0.035		0.035	0.0067	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
4-Chloroaniline	<0.70		0.70	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Hexachlorocyclopentadiene	<0.70		0.70	0.16	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
2-Methylnaphthalene	<0.18		0.18	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
2-Nitroaniline	<0.18		0.18	0.063	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
2,6-Dinitrotoluene	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
3-Nitroaniline	<0.35		0.35	0.067	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
2,4-Dinitrophenol	<0.70		0.70	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Acenaphthylene	<0.035		0.035	0.0080	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
2,4-Dinitrotoluene	<0.18		0.18	0.053	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Acenaphthene	<0.035		0.035	0.010	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
4-Nitrophenol	<0.70		0.70	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Fluorene	<0.035		0.035	0.0079	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
4-Nitroaniline	<0.35		0.35	0.072	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Hexachlorobenzene	<0.070		0.070	0.0069	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Diethyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.055	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Pentachlorophenol	<0.70		0.70	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
N-Nitrosodiphenylamine	<0.18		0.18	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.085	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Anthracene	<0.035		0.035	0.0082	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Carbazole	<0.18		0.18	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Di-n-butyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Fluoranthene	<0.035		0.035	0.014	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Benzo[a]anthracene	<0.035		0.035	0.0073	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Chrysene	<0.035		0.035	0.0079	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B02

Lab Sample ID: 500-52475-11

Date Collected: 11/16/12 09:50

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 92.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Di-n-octyl phthalate	<0.18		0.18	0.071	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Benzo[b]fluoranthene	<0.035		0.035	0.0068	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Benzo[k]fluoranthene	<0.035		0.035	0.0083	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Benzo[a]pyrene	<0.035		0.035	0.0064	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0097	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1
3 & 4 Methylphenol	<0.18		0.18	0.066	mg/Kg	☼	11/29/12 07:15	12/08/12 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	90		30 - 110	11/29/12 07:15	12/08/12 14:49	1
Phenol-d5	83		31 - 110	11/29/12 07:15	12/08/12 14:49	1
Nitrobenzene-d5	64		30 - 115	11/29/12 07:15	12/08/12 14:49	1
2-Fluorobiphenyl	79		30 - 119	11/29/12 07:15	12/08/12 14:49	1
2,4,6-Tribromophenol	77		35 - 137	11/29/12 07:15	12/08/12 14:49	1
Terphenyl-d14	97		36 - 134	11/29/12 07:15	12/08/12 14:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.0	0.14	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Arsenic	2.7		0.51	0.11	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Barium	9.4	B	0.51	0.061	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Beryllium	0.13	J	0.21	0.015	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Boron	3.4		2.6	0.48	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Cadmium	0.083	J	0.10	0.025	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Calcium	93000	B	100	18	mg/Kg	☼	11/20/12 16:00	11/30/12 13:24	10
Chromium	11		0.51	0.086	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Cobalt	3.0		0.26	0.027	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Copper	6.4		0.51	0.14	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Iron	6000	B	10	4.5	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Lead	3.9		0.26	0.089	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Magnesium	48000	B	5.1	1.0	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Manganese	190	B	0.51	0.073	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Nickel	11		0.51	0.11	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Potassium	460		26	2.9	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Selenium	0.36	J	0.51	0.15	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Sodium	180	B	51	9.4	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Thallium	<0.51		0.51	0.13	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Vanadium	9.4		0.26	0.039	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1
Zinc	23	B	1.0	0.35	mg/Kg	☼	11/20/12 16:00	11/30/12 00:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J	0.50	0.010	mg/L		11/27/12 15:00	12/01/12 00:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	12/01/12 00:22	1
Boron	0.095	J B	0.50	0.050	mg/L		11/27/12 15:00	12/01/12 00:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	12/01/12 00:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B02

Lab Sample ID: 500-52475-11

Date Collected: 11/16/12 09:50

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:22	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 00:22	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:22	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	12/01/12 00:22	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	12/01/12 00:22	1
Manganese	0.60		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:22	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:22	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	12/01/12 00:22	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 00:22	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	12/01/12 00:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:32	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J *	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 09:47	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0062	mg/Kg	☼	12/03/12 16:00	12/04/12 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.52		0.200	0.200	SU			11/21/12 09:57	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B03

Lab Sample ID: 500-52475-12

Date Collected: 11/16/12 10:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0036		0.0036	0.0016	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Benzene	<0.0036		0.0036	0.00050	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Bromodichloromethane	<0.0036		0.0036	0.00063	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Bromoform	<0.0036		0.0036	0.00084	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Bromomethane	<0.0036		0.0036	0.0011	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
2-Butanone (MEK)	<0.0036		0.0036	0.0013	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Carbon disulfide	<0.0036		0.0036	0.00054	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Carbon tetrachloride	<0.0036		0.0036	0.00066	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Chlorobenzene	<0.0036		0.0036	0.00037	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Chloroethane	<0.0036		0.0036	0.00099	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Chloroform	<0.0036		0.0036	0.00042	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Chloromethane	<0.0036		0.0036	0.00076	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
cis-1,2-Dichloroethene	<0.0036		0.0036	0.00051	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
cis-1,3-Dichloropropene	<0.0036		0.0036	0.00048	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Dibromochloromethane	<0.0036		0.0036	0.00063	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
1,1-Dichloroethane	<0.0036		0.0036	0.00058	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
1,2-Dichloroethane	<0.0036		0.0036	0.00054	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
1,1-Dichloroethene	<0.0036		0.0036	0.00059	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
1,2-Dichloropropane	<0.0036		0.0036	0.00055	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
1,3-Dichloropropene, Total	<0.0036		0.0036	0.00048	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Ethylbenzene	<0.0036		0.0036	0.00074	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
2-Hexanone	<0.0036		0.0036	0.0010	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Methylene Chloride	<0.0036		0.0036	0.00098	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.00095	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Methyl tert-butyl ether	<0.0036		0.0036	0.00060	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Styrene	<0.0036		0.0036	0.00048	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
1,1,1,2-Tetrachloroethane	<0.0036		0.0036	0.00074	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Tetrachloroethene	<0.0036		0.0036	0.00056	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Toluene	<0.0036		0.0036	0.00051	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
trans-1,2-Dichloroethene	<0.0036		0.0036	0.00050	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
trans-1,3-Dichloropropene	<0.0036		0.0036	0.00065	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
1,1,1-Trichloroethane	<0.0036		0.0036	0.00054	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
1,1,2-Trichloroethane	<0.0036		0.0036	0.00050	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Trichloroethene	<0.0036		0.0036	0.00060	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Vinyl chloride	<0.0036		0.0036	0.00076	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1
Xylenes, Total	<0.0073		0.0073	0.00033	mg/Kg	☼	11/16/12 10:00	11/20/12 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/16/12 10:00	11/20/12 20:35	1
Dibromofluoromethane	104		73 - 122	11/16/12 10:00	11/20/12 20:35	1
1,2-Dichloroethane-d4 (Surr)	86		74 - 123	11/16/12 10:00	11/20/12 20:35	1
Toluene-d8 (Surr)	98		72 - 122	11/16/12 10:00	11/20/12 20:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.053	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
1,2-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B03

Lab Sample ID: 500-52475-12

Date Collected: 11/16/12 10:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
2,4,5-Trichlorophenol	<0.33		0.33	0.095	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Hexachlorocyclopentadiene	<0.67		0.67	0.15	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
3-Nitroaniline	<0.33		0.33	0.064	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
2,4-Dinitrophenol	<0.67		0.67	0.17	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Acenaphthylene	<0.033		0.033	0.0077	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Acenaphthene	<0.033		0.033	0.010	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Fluorene	<0.033		0.033	0.0076	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
4-Nitroaniline	<0.33		0.33	0.068	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Hexachlorobenzene	<0.067		0.067	0.0066	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.053	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.081	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Phenanthrene	<0.033		0.033	0.014	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Anthracene	<0.033		0.033	0.0078	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Benzo[a]anthracene	<0.033		0.033	0.0070	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Chrysene	<0.033		0.033	0.0075	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B03

Lab Sample ID: 500-52475-12

Date Collected: 11/16/12 10:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Di-n-octyl phthalate	<0.17		0.17	0.068	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Benzo[b]fluoranthene	<0.033		0.033	0.0065	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Benzo[k]fluoranthene	<0.033		0.033	0.0080	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Benzo[a]pyrene	<0.033		0.033	0.0061	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0093	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	11/29/12 07:15	12/08/12 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	93		30 - 110	11/29/12 07:15	12/08/12 15:10	1
Phenol-d5	85		31 - 110	11/29/12 07:15	12/08/12 15:10	1
Nitrobenzene-d5	68		30 - 115	11/29/12 07:15	12/08/12 15:10	1
2-Fluorobiphenyl	84		30 - 119	11/29/12 07:15	12/08/12 15:10	1
2,4,6-Tribromophenol	77		35 - 137	11/29/12 07:15	12/08/12 15:10	1
Terphenyl-d14	100		36 - 134	11/29/12 07:15	12/08/12 15:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.1	0.14	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Arsenic	4.6		0.53	0.11	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Barium	11	B	0.53	0.063	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Beryllium	0.16	J	0.21	0.015	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Boron	4.1		2.6	0.49	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Cadmium	0.085	J	0.11	0.026	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Calcium	140000	B	110	19	mg/Kg	☼	11/20/12 16:00	11/30/12 13:28	10
Chromium	6.1		0.53	0.088	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Cobalt	3.0		0.26	0.028	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Copper	8.7		0.53	0.14	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Iron	9200	B	11	4.6	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Lead	5.9		0.26	0.091	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Magnesium	73000	B	53	10	mg/Kg	☼	11/20/12 16:00	11/30/12 13:28	10
Manganese	420	B	0.53	0.074	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Nickel	8.9		0.53	0.12	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Potassium	480		26	3.0	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Selenium	0.39	J	0.53	0.15	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Silver	<0.26		0.26	0.032	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Sodium	250	B	53	9.6	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Thallium	<0.53		0.53	0.14	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Vanadium	10		0.26	0.040	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1
Zinc	32	B	1.1	0.36	mg/Kg	☼	11/20/12 16:00	11/30/12 00:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.18	J	0.50	0.010	mg/L		11/27/12 15:00	12/01/12 00:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	12/01/12 00:29	1
Boron	0.071	J B	0.50	0.050	mg/L		11/27/12 15:00	12/01/12 00:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	12/01/12 00:29	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B03

Lab Sample ID: 500-52475-12

Date Collected: 11/16/12 10:00

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:29	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 00:29	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:29	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	12/01/12 00:29	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	12/01/12 00:29	1
Manganese	0.92		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:29	1
Nickel	0.012	J	0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:29	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	12/01/12 00:29	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 00:29	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	12/01/12 00:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:33	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J *	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 09:49	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0064	mg/Kg	☼	12/03/12 16:00	12/04/12 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.99		0.200	0.200	SU			11/21/12 10:00	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B04

Lab Sample ID: 500-52475-13

Date Collected: 11/16/12 10:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
1,1-Dichloroethene	<0.0042		0.0042	0.00067	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1
Xylenes, Total	<0.0083		0.0083	0.00038	mg/Kg	☼	11/16/12 10:05	11/20/12 20:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		76 - 120	11/16/12 10:05	11/20/12 20:58	1
Dibromofluoromethane	116		73 - 122	11/16/12 10:05	11/20/12 20:58	1
1,2-Dichloroethane-d4 (Surr)	104		74 - 123	11/16/12 10:05	11/20/12 20:58	1
Toluene-d8 (Surr)	106		72 - 122	11/16/12 10:05	11/20/12 20:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B04

Lab Sample ID: 500-52475-13

Date Collected: 11/16/12 10:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B04

Lab Sample ID: 500-52475-13

Date Collected: 11/16/12 10:05

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/29/12 07:15	12/08/12 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		30 - 110				11/29/12 07:15	12/08/12 15:31	1
Phenol-d5	79		31 - 110				11/29/12 07:15	12/08/12 15:31	1
Nitrobenzene-d5	62		30 - 115				11/29/12 07:15	12/08/12 15:31	1
2-Fluorobiphenyl	81		30 - 119				11/29/12 07:15	12/08/12 15:31	1
2,4,6-Tribromophenol	80		35 - 137				11/29/12 07:15	12/08/12 15:31	1
Terphenyl-d14	96		36 - 134				11/29/12 07:15	12/08/12 15:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Arsenic	8.0		0.56	0.12	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Barium	48 B		0.56	0.067	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Beryllium	0.50		0.22	0.016	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Boron	1.5 J		2.8	0.52	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Cadmium	0.044 J		0.11	0.028	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Calcium	9000 B		11	2.0	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Chromium	12		0.56	0.094	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Cobalt	8.9		0.28	0.029	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Copper	16		0.56	0.15	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Iron	17000 B		11	4.9	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Lead	15		0.28	0.096	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Magnesium	6800 B		5.6	1.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Manganese	470 B		0.56	0.079	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Nickel	20		0.56	0.12	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Potassium	630		28	3.2	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Selenium	0.42 J		0.56	0.16	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Sodium	2300 B		56	10	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Vanadium	22		0.28	0.043	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1
Zinc	54 B		1.1	0.38	mg/Kg	☼	11/20/12 16:00	11/30/12 00:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49 J		0.50	0.010	mg/L		11/27/12 15:00	12/01/12 01:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	12/01/12 01:08	1
Boron	0.10 J B		0.50	0.050	mg/L		11/27/12 15:00	12/01/12 01:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	12/01/12 01:08	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B04

Lab Sample ID: 500-52475-13

Date Collected: 11/16/12 10:05

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:08	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 01:08	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:08	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	12/01/12 01:08	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	12/01/12 01:08	1
Manganese	0.43		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:08	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:08	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	12/01/12 01:08	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 01:08	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	12/01/12 01:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J *	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 09:51	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0074	mg/Kg	☼	12/03/12 16:00	12/04/12 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.07		0.200	0.200	SU			11/21/12 10:03	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B04 DUP

Lab Sample ID: 500-52475-14

Date Collected: 11/16/12 10:15

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0023	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Bromodichloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Carbon tetrachloride	<0.0052		0.0052	0.00095	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Dibromochloromethane	<0.0052		0.0052	0.00091	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Ethylbenzene	<0.0052		0.0052	0.0011	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00086	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Tetrachloroethene	<0.0052		0.0052	0.00080	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00072	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	11/16/12 10:15	11/20/12 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/16/12 10:15	11/20/12 21:21	1
Dibromofluoromethane	120		73 - 122	11/16/12 10:15	11/20/12 21:21	1
1,2-Dichloroethane-d4 (Surr)	104		74 - 123	11/16/12 10:15	11/20/12 21:21	1
Toluene-d8 (Surr)	99		72 - 122	11/16/12 10:15	11/20/12 21:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.065	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B04 DUP

Lab Sample ID: 500-52475-14

Date Collected: 11/16/12 10:15

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
4-Chloroaniline	<0.83		0.83	0.13	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
3-Nitroaniline	<0.41		0.41	0.080	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Acenaphthylene	<0.041		0.041	0.0095	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Fluorene	<0.041		0.041	0.0094	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
4-Nitroaniline	<0.41		0.41	0.085	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Benzo[a]anthracene	<0.041		0.041	0.0087	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Chrysene	<0.041		0.041	0.0093	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B04 DUP

Lab Sample ID: 500-52475-14

Date Collected: 11/16/12 10:15

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Di-n-octyl phthalate	<0.21		0.21	0.084	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Benzo[b]fluoranthene	<0.041		0.041	0.0080	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Benzo[k]fluoranthene	<0.041		0.041	0.0099	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Benzo[a]pyrene	<0.041		0.041	0.0075	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Dibenz(a,h)anthracene	<0.041		0.041	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	11/29/12 07:15	12/08/12 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		30 - 110				11/29/12 07:15	12/08/12 15:52	1
Phenol-d5	80		31 - 110				11/29/12 07:15	12/08/12 15:52	1
Nitrobenzene-d5	65		30 - 115				11/29/12 07:15	12/08/12 15:52	1
2-Fluorobiphenyl	80		30 - 119				11/29/12 07:15	12/08/12 15:52	1
2,4,6-Tribromophenol	75		35 - 137				11/29/12 07:15	12/08/12 15:52	1
Terphenyl-d14	102		36 - 134				11/29/12 07:15	12/08/12 15:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Arsenic	6.3		0.59	0.13	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Barium	89 B		0.59	0.070	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Beryllium	0.70		0.24	0.017	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Boron	1.7 J		2.9	0.55	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Cadmium	0.070 J		0.12	0.029	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Calcium	13000 B		12	2.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Chromium	12		0.59	0.098	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Cobalt	8.5		0.29	0.031	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Copper	14		0.59	0.16	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Iron	16000 B		12	5.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Lead	13		0.29	0.10	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Magnesium	9400 B		5.9	1.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Manganese	610 B		0.59	0.083	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Nickel	42		0.59	0.13	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Potassium	680		29	3.3	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Selenium	0.49 J		0.59	0.17	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Sodium	2400 B		59	11	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Vanadium	19		0.29	0.045	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1
Zinc	57 B		1.2	0.40	mg/Kg	☼	11/20/12 16:00	11/30/12 00:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.66		0.50	0.010	mg/L		11/27/12 15:00	12/01/12 01:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	12/01/12 01:15	1
Boron	0.069 J B		0.50	0.050	mg/L		11/27/12 15:00	12/01/12 01:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	12/01/12 01:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B04 DUP

Lab Sample ID: 500-52475-14

Date Collected: 11/16/12 10:15

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:15	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 01:15	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:15	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	12/01/12 01:15	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	12/01/12 01:15	1
Manganese	0.44		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:15	1
Nickel	0.011	J	0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:15	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	12/01/12 01:15	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 01:15	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	12/01/12 01:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J *	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 09:52	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.020	0.0076	mg/Kg	☼	12/03/12 16:00	12/04/12 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.80		0.200	0.200	SU			11/21/12 10:07	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B05

Lab Sample ID: 500-52475-15

Date Collected: 11/16/12 10:20

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0022	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Chlorobenzene	<0.0052		0.0052	0.00052	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Chloroform	<0.0052		0.0052	0.00059	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
1,2-Dichloropropane	<0.0052		0.0052	0.00078	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00085	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Toluene	<0.0052		0.0052	0.00072	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	11/16/12 10:20	11/21/12 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		76 - 120	11/16/12 10:20	11/21/12 13:50	1
Dibromofluoromethane	103		73 - 122	11/16/12 10:20	11/21/12 13:50	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	11/16/12 10:20	11/21/12 13:50	1
Toluene-d8 (Surr)	95		72 - 122	11/16/12 10:20	11/21/12 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B05

Lab Sample ID: 500-52475-15

Date Collected: 11/16/12 10:20

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
4-Nitrophenol	<0.77		0.77	0.20	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B05

Lab Sample ID: 500-52475-15

Date Collected: 11/16/12 10:20

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/29/12 07:15	12/08/12 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	88		30 - 110	11/29/12 07:15	12/08/12 16:13	1
Phenol-d5	85		31 - 110	11/29/12 07:15	12/08/12 16:13	1
Nitrobenzene-d5	66		30 - 115	11/29/12 07:15	12/08/12 16:13	1
2-Fluorobiphenyl	84		30 - 119	11/29/12 07:15	12/08/12 16:13	1
2,4,6-Tribromophenol	75		35 - 137	11/29/12 07:15	12/08/12 16:13	1
Terphenyl-d14	96		36 - 134	11/29/12 07:15	12/08/12 16:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Arsenic	4.7		0.56	0.12	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Barium	120 B		0.56	0.066	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Beryllium	0.43		0.22	0.016	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Boron	1.3 J		2.8	0.52	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Cadmium	0.15		0.11	0.028	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Calcium	4300 B		11	2.0	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Chromium	10		0.56	0.093	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Cobalt	10		0.28	0.029	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Copper	7.8		0.56	0.15	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Iron	12000 B		11	4.8	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Lead	13		0.28	0.096	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Magnesium	3100 B		5.6	1.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Manganese	1500 B		5.6	0.79	mg/Kg	☼	11/20/12 16:00	11/30/12 13:32	10
Nickel	14		0.56	0.12	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Potassium	560		28	3.2	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Selenium	0.88		0.56	0.16	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Sodium	1200 B		56	10	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Vanadium	21		0.28	0.042	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1
Zinc	41 B		1.1	0.38	mg/Kg	☼	11/20/12 16:00	11/30/12 00:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58		0.50	0.010	mg/L		11/27/12 15:00	12/01/12 01:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	12/01/12 01:21	1
Boron	0.051 J B		0.50	0.050	mg/L		11/27/12 15:00	12/01/12 01:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	12/01/12 01:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B05

Lab Sample ID: 500-52475-15

Date Collected: 11/16/12 10:20

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:21	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 01:21	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:21	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	12/01/12 01:21	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	12/01/12 01:21	1
Manganese	0.081		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:21	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:21	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	12/01/12 01:21	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 01:21	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	12/01/12 01:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:40	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J *	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 09:54	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0073	mg/Kg	☼	12/03/12 16:00	12/04/12 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.78		0.200	0.200	SU			11/21/12 10:10	1

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B06

Lab Sample ID: 500-52475-16

Date Collected: 11/16/12 10:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0021	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Bromodichloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Chloroform	<0.0047		0.0047	0.00055	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Chloromethane	<0.0047		0.0047	0.0010	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Dibromochloromethane	<0.0047		0.0047	0.00083	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
1,1-Dichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Tetrachloroethene	<0.0047		0.0047	0.00073	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00065	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Vinyl chloride	<0.0047		0.0047	0.0010	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	11/16/12 10:25	11/21/12 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		76 - 120	11/16/12 10:25	11/21/12 14:13	1
Dibromofluoromethane	106		73 - 122	11/16/12 10:25	11/21/12 14:13	1
1,2-Dichloroethane-d4 (Surr)	95		74 - 123	11/16/12 10:25	11/21/12 14:13	1
Toluene-d8 (Surr)	99		72 - 122	11/16/12 10:25	11/21/12 14:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B06

Lab Sample ID: 500-52475-16

Date Collected: 11/16/12 10:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B06

Lab Sample ID: 500-52475-16

Date Collected: 11/16/12 10:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/29/12 07:15	12/08/12 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		30 - 110				11/29/12 07:15	12/08/12 16:34	1
Phenol-d5	78		31 - 110				11/29/12 07:15	12/08/12 16:34	1
Nitrobenzene-d5	61		30 - 115				11/29/12 07:15	12/08/12 16:34	1
2-Fluorobiphenyl	78		30 - 119				11/29/12 07:15	12/08/12 16:34	1
2,4,6-Tribromophenol	70		35 - 137				11/29/12 07:15	12/08/12 16:34	1
Terphenyl-d14	94		36 - 134				11/29/12 07:15	12/08/12 16:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Arsenic	7.5		0.60	0.13	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Barium	79 B		0.60	0.071	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Beryllium	0.52		0.24	0.018	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Boron	1.7 J		3.0	0.56	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Cadmium	0.082 J		0.12	0.030	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Calcium	1700 B		12	2.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Chromium	13		0.60	0.10	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Cobalt	10		0.30	0.032	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Copper	13		0.60	0.16	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Iron	16000 B		12	5.2	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Lead	17		0.30	0.10	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Magnesium	2400 B		6.0	1.2	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Manganese	720 B		0.60	0.085	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Nickel	28		0.60	0.13	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Potassium	660		30	3.4	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Selenium	0.58 J		0.60	0.17	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Sodium	1700 B		60	11	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Thallium	<0.60		0.60	0.15	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Vanadium	22		0.30	0.046	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1
Zinc	65 B		1.2	0.41	mg/Kg	☼	11/20/12 16:00	11/30/12 00:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.32 J		0.50	0.010	mg/L		11/27/12 15:00	12/01/12 01:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	12/01/12 01:27	1
Boron	0.099 J B		0.50	0.050	mg/L		11/27/12 15:00	12/01/12 01:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	12/01/12 01:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B06

Lab Sample ID: 500-52475-16

Date Collected: 11/16/12 10:25

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:27	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 01:27	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:27	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	12/01/12 01:27	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	12/01/12 01:27	1
Manganese	0.039		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:27	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:27	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	12/01/12 01:27	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 01:27	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	12/01/12 01:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	*	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 11:28	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.020	0.0076	mg/Kg	☼	12/03/12 16:00	12/04/12 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.84		0.200	0.200	SU			11/21/12 10:13	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B09

Lab Sample ID: 500-52475-17

Date Collected: 11/16/12 10:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0022	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	11/16/12 10:30	11/21/12 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		76 - 120	11/16/12 10:30	11/21/12 14:36	1
Dibromofluoromethane	108		73 - 122	11/16/12 10:30	11/21/12 14:36	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/16/12 10:30	11/21/12 14:36	1
Toluene-d8 (Surr)	97		72 - 122	11/16/12 10:30	11/21/12 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	11/29/12 07:15	12/08/12 16:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/29/12 07:15	12/08/12 16:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 16:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 16:54	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 16:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B09

Lab Sample ID: 500-52475-17

Date Collected: 11/16/12 10:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Isophorone	<0.20		0.20	0.044	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Carbazole	<0.20		0.20	0.056	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Pyrene	<0.040		0.040	0.014	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1
Chrysene	<0.040		0.040	0.0090	mg/Kg	*	11/29/12 07:15	12/08/12 16:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B09

Lab Sample ID: 500-52475-17

Date Collected: 11/16/12 10:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/29/12 07:15	12/08/12 16:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/29/12 07:15	12/08/12 16:54	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	11/29/12 07:15	12/08/12 16:54	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	11/29/12 07:15	12/08/12 16:54	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	11/29/12 07:15	12/08/12 16:54	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	11/29/12 07:15	12/08/12 16:54	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 16:54	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 16:54	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 16:54	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	11/29/12 07:15	12/08/12 16:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		30 - 110				11/29/12 07:15	12/08/12 16:54	1
Phenol-d5	73		31 - 110				11/29/12 07:15	12/08/12 16:54	1
Nitrobenzene-d5	58		30 - 115				11/29/12 07:15	12/08/12 16:54	1
2-Fluorobiphenyl	74		30 - 119				11/29/12 07:15	12/08/12 16:54	1
2,4,6-Tribromophenol	75		35 - 137				11/29/12 07:15	12/08/12 16:54	1
Terphenyl-d14	94		36 - 134				11/29/12 07:15	12/08/12 16:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Arsenic	6.2		0.59	0.13	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Barium	80 B		0.59	0.070	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Beryllium	0.54		0.23	0.017	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Boron	2.2 J		2.9	0.55	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Cadmium	0.051 J		0.12	0.029	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Calcium	1800 B		12	2.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Chromium	14		0.59	0.098	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Cobalt	4.0		0.29	0.031	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Copper	12		0.59	0.16	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Iron	17000 B		12	5.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Lead	8.0		0.29	0.10	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Magnesium	2600 B		5.9	1.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Manganese	270 B		0.59	0.083	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Nickel	20		0.59	0.13	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Potassium	790		29	3.3	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Selenium	0.36 J		0.59	0.17	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Sodium	200 B		59	11	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Vanadium	24		0.29	0.045	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1
Zinc	53 B		1.2	0.40	mg/Kg	☼	11/20/12 16:00	11/30/12 00:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47 J		0.50	0.010	mg/L		11/27/12 15:00	12/01/12 01:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	12/01/12 01:33	1
Boron	0.068 J B		0.50	0.050	mg/L		11/27/12 15:00	12/01/12 01:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	12/01/12 01:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B09

Lab Sample ID: 500-52475-17

Date Collected: 11/16/12 10:30

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:33	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 01:33	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:33	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	12/01/12 01:33	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	12/01/12 01:33	1
Manganese	0.013	J	0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:33	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:33	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	12/01/12 01:33	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 01:33	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	12/01/12 01:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018	J *	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 11:30	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0067	mg/Kg	☼	12/03/12 16:00	12/04/12 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.58		0.200	0.200	SU			11/21/12 10:16	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B09 DUP

Lab Sample ID: 500-52475-18

Date Collected: 11/16/12 10:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0022	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	11/16/12 10:35	11/21/12 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		76 - 120	11/16/12 10:35	11/21/12 14:59	1
Dibromofluoromethane	103		73 - 122	11/16/12 10:35	11/21/12 14:59	1
1,2-Dichloroethane-d4 (Surr)	93		74 - 123	11/16/12 10:35	11/21/12 14:59	1
Toluene-d8 (Surr)	95		72 - 122	11/16/12 10:35	11/21/12 14:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B09 DUP

Lab Sample ID: 500-52475-18

Date Collected: 11/16/12 10:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B09 DUP

Lab Sample ID: 500-52475-18

Date Collected: 11/16/12 10:35

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/29/12 07:15	12/08/12 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	80		30 - 110	11/29/12 07:15	12/08/12 17:15	1
Phenol-d5	75		31 - 110	11/29/12 07:15	12/08/12 17:15	1
Nitrobenzene-d5	57		30 - 115	11/29/12 07:15	12/08/12 17:15	1
2-Fluorobiphenyl	76		30 - 119	11/29/12 07:15	12/08/12 17:15	1
2,4,6-Tribromophenol	75		35 - 137	11/29/12 07:15	12/08/12 17:15	1
Terphenyl-d14	93		36 - 134	11/29/12 07:15	12/08/12 17:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Arsenic	7.2		0.56	0.12	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Barium	110	B	0.56	0.066	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Beryllium	0.66		0.22	0.016	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Boron	1.0	J	2.8	0.52	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Cadmium	0.059	J	0.11	0.027	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Calcium	2000	B	11	2.0	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Chromium	14		0.56	0.093	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Cobalt	14		0.28	0.029	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Copper	14		0.56	0.15	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Iron	17000	B	11	4.8	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Lead	16		0.28	0.096	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Magnesium	2700	B	5.6	1.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Manganese	780	B	0.56	0.078	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Nickel	23		0.56	0.12	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Potassium	680		28	3.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Selenium	0.66		0.56	0.16	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Sodium	210	B	56	10	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Vanadium	28		0.28	0.042	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1
Zinc	49	B	1.1	0.38	mg/Kg	☼	11/20/12 16:00	11/30/12 00:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J	0.50	0.010	mg/L		11/27/12 15:00	12/01/12 01:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	12/01/12 01:39	1
Boron	0.12	J B	0.50	0.050	mg/L		11/27/12 15:00	12/01/12 01:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	12/01/12 01:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B09 DUP

Lab Sample ID: 500-52475-18

Date Collected: 11/16/12 10:35

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:39	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 01:39	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:39	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	12/01/12 01:39	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	12/01/12 01:39	1
Manganese	0.010	J	0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:39	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:39	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	12/01/12 01:39	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 01:39	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	12/01/12 01:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J *	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 11:32	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0069	mg/Kg	☼	12/03/12 16:00	12/04/12 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.41		0.200	0.200	SU			11/21/12 10:19	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B10

Lab Sample ID: 500-52475-19

Date Collected: 11/16/12 10:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	11/16/12 10:45	11/21/12 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/16/12 10:45	11/21/12 15:22	1
Dibromofluoromethane	108		73 - 122	11/16/12 10:45	11/21/12 15:22	1
1,2-Dichloroethane-d4 (Surr)	96		74 - 123	11/16/12 10:45	11/21/12 15:22	1
Toluene-d8 (Surr)	100		72 - 122	11/16/12 10:45	11/21/12 15:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B10

Lab Sample ID: 500-52475-19

Date Collected: 11/16/12 10:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.056	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
4-Nitroaniline	<0.37		0.37	0.075	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Diethyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Di-n-butyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B10

Lab Sample ID: 500-52475-19

Date Collected: 11/16/12 10:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Benzo[b]fluoranthene	<0.037		0.037	0.0071	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	11/29/12 07:15	12/08/12 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	88		30 - 110				11/29/12 07:15	12/08/12 17:37	1
Phenol-d5	67		31 - 110				11/29/12 07:15	12/08/12 17:37	1
Nitrobenzene-d5	61		30 - 115				11/29/12 07:15	12/08/12 17:37	1
2-Fluorobiphenyl	86		30 - 119				11/29/12 07:15	12/08/12 17:37	1
2,4,6-Tribromophenol	78		35 - 137				11/29/12 07:15	12/08/12 17:37	1
Terphenyl-d14	107		36 - 134				11/29/12 07:15	12/08/12 17:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Arsenic	7.2		0.54	0.12	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Barium	72 B		0.54	0.065	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Beryllium	0.56		0.22	0.016	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Boron	1.7 J		2.7	0.51	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Cadmium	0.038 J		0.11	0.027	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Calcium	4900 B		11	1.9	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Chromium	14		0.54	0.091	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Cobalt	8.1		0.27	0.029	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Copper	15		0.54	0.15	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Iron	18000 B		11	4.7	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Lead	12		0.27	0.094	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Magnesium	4800 B		5.4	1.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Manganese	380 B		0.54	0.077	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Nickel	19		0.54	0.12	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Potassium	710		27	3.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Selenium	0.50 J		0.54	0.16	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Sodium	78 B		54	10	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Vanadium	28		0.27	0.041	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1
Zinc	50 B		1.1	0.37	mg/Kg	☼	11/20/12 16:00	11/30/12 00:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.63		0.50	0.010	mg/L		11/27/12 15:00	12/01/12 01:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	12/01/12 01:46	1
Boron	0.078 J B		0.50	0.050	mg/L		11/27/12 15:00	12/01/12 01:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	12/01/12 01:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B10

Lab Sample ID: 500-52475-19

Date Collected: 11/16/12 10:45

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:46	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 01:46	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:46	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	12/01/12 01:46	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	12/01/12 01:46	1
Manganese	0.16		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:46	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:46	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	12/01/12 01:46	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 01:46	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	12/01/12 01:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018	J *	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 11:34	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.017	0.0067	mg/Kg	☼	12/03/12 16:00	12/04/12 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.47		0.200	0.200	SU			11/21/12 10:22	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B11

Lab Sample ID: 500-52475-20

Date Collected: 11/16/12 10:50

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045	*	0.0045	0.0019	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Toluene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	11/16/12 10:50	11/24/12 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		76 - 120	11/16/12 10:50	11/24/12 02:12	1
Dibromofluoromethane	101		73 - 122	11/16/12 10:50	11/24/12 02:12	1
1,2-Dichloroethane-d4 (Surr)	87		74 - 123	11/16/12 10:50	11/24/12 02:12	1
Toluene-d8 (Surr)	102		72 - 122	11/16/12 10:50	11/24/12 02:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 17:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 17:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 17:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 17:57	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 17:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B11

Lab Sample ID: 500-52475-20

Date Collected: 11/16/12 10:50

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Isophorone	<0.19		0.19	0.043	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Phenanthrene	0.080		0.038	0.016	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Anthracene	0.017 J		0.038	0.0090	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Carbazole	<0.19		0.19	0.054	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Fluoranthene	0.14		0.038	0.016	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Pyrene	0.12		0.038	0.014	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Benzo[a]anthracene	0.063		0.038	0.0080	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1
Chrysene	0.068		0.038	0.0086	mg/Kg	*	11/29/12 07:15	12/08/12 17:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B11

Lab Sample ID: 500-52475-20

Date Collected: 11/16/12 10:50

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/29/12 07:15	12/08/12 17:57	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 17:57	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/29/12 07:15	12/08/12 17:57	1
Benzo[b]fluoranthene	0.067		0.038	0.0074	mg/Kg	☼	11/29/12 07:15	12/08/12 17:57	1
Benzo[k]fluoranthene	0.038		0.038	0.0091	mg/Kg	☼	11/29/12 07:15	12/08/12 17:57	1
Benzo[a]pyrene	0.055		0.038	0.0070	mg/Kg	☼	11/29/12 07:15	12/08/12 17:57	1
Indeno[1,2,3-cd]pyrene	0.030	J	0.038	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 17:57	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 17:57	1
Benzo[g,h,i]perylene	0.033	J	0.038	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 17:57	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/29/12 07:15	12/08/12 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		30 - 110				11/29/12 07:15	12/08/12 17:57	1
Phenol-d5	63		31 - 110				11/29/12 07:15	12/08/12 17:57	1
Nitrobenzene-d5	50		30 - 115				11/29/12 07:15	12/08/12 17:57	1
2-Fluorobiphenyl	72		30 - 119				11/29/12 07:15	12/08/12 17:57	1
2,4,6-Tribromophenol	68		35 - 137				11/29/12 07:15	12/08/12 17:57	1
Terphenyl-d14	99		36 - 134				11/29/12 07:15	12/08/12 17:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.2	0.15	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Arsenic	7.4		0.58	0.13	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Barium	48	B	0.58	0.069	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Beryllium	0.24		0.23	0.017	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Boron	2.3	J	2.9	0.54	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Cadmium	0.12		0.12	0.029	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Calcium	55000	B	120	21	mg/Kg	☼	11/20/12 16:00	11/30/12 13:36	10
Chromium	6.9		0.58	0.097	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Cobalt	4.6		0.29	0.031	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Copper	11		0.58	0.16	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Iron	11000	B	12	5.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Lead	14		0.29	0.10	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Magnesium	30000	B	5.8	1.1	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Manganese	520	B	0.58	0.082	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Nickel	11		0.58	0.13	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Potassium	500		29	3.3	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Selenium	0.40	J	0.58	0.17	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Sodium	250	B	58	11	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Vanadium	13		0.29	0.044	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1
Zinc	35	B	1.2	0.40	mg/Kg	☼	11/20/12 16:00	11/30/12 00:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61		0.50	0.010	mg/L		11/27/12 15:00	12/01/12 01:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	12/01/12 01:52	1
Boron	0.072	J B	0.50	0.050	mg/L		11/27/12 15:00	12/01/12 01:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	12/01/12 01:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B11

Lab Sample ID: 500-52475-20

Date Collected: 11/16/12 10:50

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:52	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 01:52	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:52	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	12/01/12 01:52	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	12/01/12 01:52	1
Manganese	0.099		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:52	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 01:52	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	12/01/12 01:52	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 01:52	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	12/01/12 01:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:46	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018	J *	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 11:36	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.020	0.0075	mg/Kg	☼	11/29/12 17:00	11/30/12 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.97		0.200	0.200	SU			11/21/12 10:25	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B12

Lab Sample ID: 500-52475-21

Date Collected: 11/16/12 11:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0037		0.0037	0.0016	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Benzene	<0.0037		0.0037	0.00051	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Bromodichloromethane	<0.0037		0.0037	0.00064	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Bromoform	<0.0037		0.0037	0.00086	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Bromomethane	<0.0037		0.0037	0.0011	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
2-Butanone (MEK)	<0.0037		0.0037	0.0014	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Carbon disulfide	<0.0037		0.0037	0.00056	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Carbon tetrachloride	<0.0037		0.0037	0.00068	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Chlorobenzene	<0.0037		0.0037	0.00038	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Chloroethane	<0.0037		0.0037	0.0010	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Chloroform	<0.0037		0.0037	0.00043	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Chloromethane	<0.0037		0.0037	0.00078	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00053	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00049	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Dibromochloromethane	<0.0037		0.0037	0.00065	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
1,1-Dichloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
1,1-Dichloroethene	<0.0037		0.0037	0.00060	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
1,2-Dichloropropane	<0.0037		0.0037	0.00057	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.00049	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Ethylbenzene	<0.0037		0.0037	0.00075	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Methylene Chloride	<0.0037		0.0037	0.0010	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00098	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00062	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Styrene	<0.0037		0.0037	0.00049	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
1,1,1,2-Tetrachloroethane	<0.0037		0.0037	0.00075	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Tetrachloroethene	<0.0037		0.0037	0.00057	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Toluene	<0.0037		0.0037	0.00052	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00051	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.00067	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00056	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00051	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Trichloroethene	<0.0037		0.0037	0.00062	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Vinyl chloride	<0.0037		0.0037	0.00078	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1
Xylenes, Total	<0.0075		0.0075	0.00034	mg/Kg	☼	11/16/12 11:00	11/21/12 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		76 - 120	11/16/12 11:00	11/21/12 16:07	1
Dibromofluoromethane	101		73 - 122	11/16/12 11:00	11/21/12 16:07	1
1,2-Dichloroethane-d4 (Surr)	89		74 - 123	11/16/12 11:00	11/21/12 16:07	1
Toluene-d8 (Surr)	96		72 - 122	11/16/12 11:00	11/21/12 16:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B12

Lab Sample ID: 500-52475-21

Date Collected: 11/16/12 11:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Acenaphthylene	0.037		0.036	0.0083	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Acenaphthene	0.018 J		0.036	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Fluorene	0.026 J		0.036	0.0082	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Phenanthrene	0.31		0.036	0.015	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Anthracene	0.094		0.036	0.0085	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Fluoranthene	1.0		0.036	0.015	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Pyrene	0.96		0.036	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Benzo[a]anthracene	0.51		0.036	0.0076	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Chrysene	0.52		0.036	0.0081	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B12

Lab Sample ID: 500-52475-21

Date Collected: 11/16/12 11:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Benzo[b]fluoranthene	0.55		0.036	0.0070	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Benzo[k]fluoranthene	0.21		0.036	0.0086	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Benzo[a]pyrene	0.43		0.036	0.0066	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Indeno[1,2,3-cd]pyrene	0.24		0.036	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Dibenz(a,h)anthracene	0.073		0.036	0.010	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Benzo[g,h,i]perylene	0.24		0.036	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	11/29/12 07:15	12/08/12 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		30 - 110				11/29/12 07:15	12/08/12 18:18	1
Phenol-d5	60		31 - 110				11/29/12 07:15	12/08/12 18:18	1
Nitrobenzene-d5	49		30 - 115				11/29/12 07:15	12/08/12 18:18	1
2-Fluorobiphenyl	76		30 - 119				11/29/12 07:15	12/08/12 18:18	1
2,4,6-Tribromophenol	68		35 - 137				11/29/12 07:15	12/08/12 18:18	1
Terphenyl-d14	101		36 - 134				11/29/12 07:15	12/08/12 18:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Arsenic	4.1		0.56	0.12	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Barium	33		0.56	0.066	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Beryllium	0.42		0.22	0.016	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Boron	4.2		2.8	0.52	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Cadmium	0.21		0.11	0.028	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Calcium	54000	B	11	2.0	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Chromium	7.9		0.56	0.093	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Cobalt	4.0		0.28	0.029	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Copper	11		0.56	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Iron	10000		11	4.8	mg/Kg	☼	11/29/12 16:00	11/30/12 11:54	1
Lead	5.2		0.28	0.096	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Magnesium	31000	B	5.6	1.1	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Manganese	330		0.56	0.078	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Nickel	10		0.56	0.12	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Potassium	1100		28	3.1	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Sodium	500	B	56	10	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Thallium	0.25	J	0.56	0.14	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Vanadium	13		0.28	0.042	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1
Zinc	26		1.1	0.38	mg/Kg	☼	11/20/12 16:00	11/29/12 14:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.010	mg/L		11/27/12 15:00	12/01/12 02:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	12/01/12 02:13	1
Boron	0.085	J B	0.50	0.050	mg/L		11/27/12 15:00	12/01/12 02:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	12/01/12 02:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-2-B12

Lab Sample ID: 500-52475-21

Date Collected: 11/16/12 11:00

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 02:13	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 02:13	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 02:13	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	12/01/12 02:13	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	12/01/12 02:13	1
Manganese	0.17		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 02:13	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 02:13	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	12/01/12 02:13	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 02:13	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	12/01/12 02:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018	J *	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 11:38	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0069	mg/Kg	☼	11/29/12 17:00	11/30/12 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.11		0.200	0.200	SU			11/21/12 10:28	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

Glossary

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



CHAIN OF CUSTODY RECORD

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>1L72</u> Project No.: <u>IDOT2011-055</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>55 / CM</u>	COC No.: <u>4 of 6</u> Lab Job No.: <u>500-52475</u> Sample Temp: <u>4.8, 4.5, 4.7</u>
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Special Instructions:
See Table 1 for complete parameter lists and reporting limit requirements.
*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

ANALYSES										
VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals / Inorg	pH	% Solids	Waste Characterization

Matrix Key:
W - Water
S - Soil
SL - Sludge
SE - Sediment
L - Leachate
DW - Drinking Water
OL - Oil
O - Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals / Inorg	pH	% Solids	Waste Characterization	Comments
1	2470-2-B07-3	11/15	1:15	S	✓	✓					✓	✓	✓	✓		10-15'
2	2470-3-B07		1:25	S	✓	✓					✓	✓	✓	✓		0-5'
3	2470-3-B07BP		1:30	S	✓	✓					✓	✓	✓	✓		0-5'
4	2470-3-B06		1:40	S	✓	✓					✓	✓	✓	✓		0-5'
5	2470-3-B05		1:50	S	✓	✓					✓	✓	✓	✓		0-5'
6	2470-3-B04		2:00	S	✓	✓					✓	✓	✓	✓		0-5'
7	2470-3-B03		2:10	S	✓	✓					✓	✓	✓	✓		0-4'
8	2470-3-B02		2:20	S	✓	✓					✓	✓	✓	✓		0-4'
9	2470-3-B01	11/15	2:30	S	✓	✓					✓	✓	✓	✓		0-4'
10	2470-2-B01	11/16	9:45	S	✓	✓					✓	✓	✓	✓		0-4'
11	2470-2-B02	11/16	9:50	S	✓	✓					✓	✓	✓	✓		0-5'
12	2470-2-B03	11/16	10:00	S	✓	✓					✓	✓	✓	✓		0-5'

Relinquished by: <u>[Signature]</u> 11/16/12	Date/Time: <u>11/16/12 1:30</u>	Received by: <u>[Signature]</u> 11/16/12	Date/Time: <u>11/16/12 14:00</u>
Relinquished by: <u>[Signature]</u> 11/16/12	Date/Time: <u>1500</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/16/12 1500</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Laboratory Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>1L72</u> Project No.: <u>IDOT2011-055</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>SSICM</u>	COC No.: <u>5</u> of <u>6</u> Lab Job No.: <u>500-52475</u> Sample Temp:
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Special Instructions:
See Table 2 for complete parameter lists and reporting limit requirements.
*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

ANALYSES										
VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals	pH	% Solids	Waste Characterization

- Matrix Key:**
W - Water
S - Soil
SL - Sludge
SE - Sediment
L - Leachate
DW - Drinking Water
OL - Oil
O - Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	2470-2-B04	11/16/12	10:05	S	✓	✓					✓	✓	✓	✓		0-6'
14	2470-2-B04 DUP		10:15	S	↓	↓					↓	↓	↓	↓		0-6'
15	2470-2-B05		10:20	S	↓	↓					↓	↓	↓	↓		0-6'
16	2470-2-B06		10:25	S	↓	↓					↓	↓	↓	↓		0-5'
17	2470-2-B09		10:30	S	↓	↓					↓	↓	↓	↓		0-5'
18	2470-2-B09 DUP		10:35	S	↓	↓					↓	↓	↓	↓		0-5'
19	2470-2-B10		10:45	S	↓	↓					↓	↓	↓	↓		0-4'
20	2470-2-B11		10:50	S	↓	↓					↓	↓	↓	↓		0-4'
21	2470-2-B12		11:00	S	↓	↓					↓	↓	↓	↓		0-4'
22	2470-1-B14		11:05	S	↓	↓			X		↓	↓	↓	↓		0-4'
23	2470-1-B13		11:10	S	↓	↓			X		↓	↓	↓	↓		0-4'
24	2470-1-B12		11:15	S	✓	✓			X		✓	✓	✓	✓		0-4'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/16/12 1:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/16/12 1:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/16/12 1500</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/16/12 1500</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-52473-1
Client Project/Site: IDOT - IL 72 - Kane Co. - WO 055

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

Attn: Mike Nelson



Authorized for release by:
12/11/2012 3:38:49 PM

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

LINKS

Review your project
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
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-2-B08-1

Lab Sample ID: 500-52473-31

Date Collected: 11/15/12 12:40

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
2-Butanone (MEK)	<0.0051		0.0051	0.0019	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Carbon disulfide	<0.0051		0.0051	0.00077	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
1,1-Dichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00077	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	11/15/12 12:40	11/21/12 08:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		76 - 120	11/15/12 12:40	11/21/12 08:08	1
Dibromofluoromethane	117		73 - 122	11/15/12 12:40	11/21/12 08:08	1
1,2-Dichloroethane-d4 (Surr)	98		74 - 123	11/15/12 12:40	11/21/12 08:08	1
Toluene-d8 (Surr)	105		72 - 122	11/15/12 12:40	11/21/12 08:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-2-B08-1

Lab Sample ID: 500-52473-31

Date Collected: 11/15/12 12:40

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Phenanthrene	0.042		0.039	0.017	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Anthracene	0.011 J		0.039	0.0093	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Fluoranthene	0.044		0.039	0.016	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Pyrene	0.039		0.039	0.014	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Benzo[a]anthracene	0.021 J		0.039	0.0083	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Chrysene	0.023 J		0.039	0.0089	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-2-B08-1

Lab Sample ID: 500-52473-31

Date Collected: 11/15/12 12:40

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Benzo[b]fluoranthene	0.021	J	0.039	0.0077	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Benzo[a]pyrene	0.015	J	0.039	0.0072	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	11/28/12 17:09	12/11/12 12:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		30 - 110				11/28/12 17:09	12/11/12 12:51	1
Phenol-d5	55		31 - 110				11/28/12 17:09	12/11/12 12:51	1
Nitrobenzene-d5	42		30 - 115				11/28/12 17:09	12/11/12 12:51	1
2-Fluorobiphenyl	52		30 - 119				11/28/12 17:09	12/11/12 12:51	1
2,4,6-Tribromophenol	57		35 - 137				11/28/12 17:09	12/11/12 12:51	1
Terphenyl-d14	69		36 - 134				11/28/12 17:09	12/11/12 12:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Arsenic	6.4		0.58	0.13	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Barium	83		0.58	0.069	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Beryllium	0.60		0.23	0.017	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Boron	2.0	J	2.9	0.54	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Cadmium	0.077	J	0.12	0.029	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Calcium	4100	B	12	2.0	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Chromium	14		0.58	0.097	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Cobalt	11		0.29	0.030	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Copper	14		0.58	0.16	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Iron	21000		12	5.0	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Lead	12		0.29	0.099	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Magnesium	3800	B	5.8	1.1	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Manganese	620		0.58	0.082	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Nickel	24		0.58	0.13	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Potassium	520		29	3.3	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Selenium	0.52	J	0.58	0.17	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Sodium	2100		58	11	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Vanadium	27		0.29	0.044	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1
Zinc	51		1.2	0.40	mg/Kg	☼	11/20/12 09:40	11/28/12 23:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J	0.50	0.010	mg/L		11/28/12 15:30	11/30/12 14:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/30/12 14:13	1
Boron	0.059	J	0.50	0.050	mg/L		11/28/12 15:30	11/30/12 14:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/30/12 14:13	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-2-B08-1

Lab Sample ID: 500-52473-31

Date Collected: 11/15/12 12:40

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 14:13	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 14:13	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 14:13	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/30/12 14:13	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/30/12 14:13	1
Manganese	0.43		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 14:13	1
Nickel	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 14:13	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/30/12 14:13	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 14:13	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/30/12 14:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 18:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 18:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J B	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 11:51	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.020	0.0076	mg/Kg	☆	12/03/12 16:00	12/04/12 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.74		0.200	0.200	SU			11/20/12 10:36	1

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-2-B08-2

Lab Sample ID: 500-52473-32

Date Collected: 11/15/12 12:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0030	J	0.0041	0.0018	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	11/15/12 12:45	11/21/12 08:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/15/12 12:45	11/21/12 08:31	1
Dibromofluoromethane	108		73 - 122	11/15/12 12:45	11/21/12 08:31	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/15/12 12:45	11/21/12 08:31	1
Toluene-d8 (Surr)	103		72 - 122	11/15/12 12:45	11/21/12 08:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-2-B08-2

Lab Sample ID: 500-52473-32

Date Collected: 11/15/12 12:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.056	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Hexachlorobenzene	<0.074		0.074	0.0073	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Diethyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Di-n-butyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-2-B08-2

Lab Sample ID: 500-52473-32

Date Collected: 11/15/12 12:45

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	11/28/12 17:09	12/11/12 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		30 - 110	11/28/12 17:09	12/11/12 13:12	1
Phenol-d5	64		31 - 110	11/28/12 17:09	12/11/12 13:12	1
Nitrobenzene-d5	50		30 - 115	11/28/12 17:09	12/11/12 13:12	1
2-Fluorobiphenyl	61		30 - 119	11/28/12 17:09	12/11/12 13:12	1
2,4,6-Tribromophenol	61		35 - 137	11/28/12 17:09	12/11/12 13:12	1
Terphenyl-d14	74		36 - 134	11/28/12 17:09	12/11/12 13:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Arsenic	4.4		0.57	0.12	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Barium	65		0.57	0.068	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Beryllium	0.37		0.23	0.017	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Boron	1.6 J		2.8	0.53	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Cadmium	0.063 J		0.11	0.028	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Calcium	5200 B		11	2.0	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Chromium	11		0.57	0.095	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Cobalt	4.6		0.28	0.030	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Copper	9.8		0.57	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Iron	12000		11	4.9	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Lead	8.6		0.28	0.098	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Magnesium	3900 B		5.7	1.1	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Manganese	270		0.57	0.080	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Nickel	26		0.57	0.12	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Potassium	510		28	3.2	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Selenium	0.26 J		0.57	0.16	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Sodium	950		57	10	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Vanadium	17		0.28	0.043	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1
Zinc	49		1.1	0.39	mg/Kg	☼	11/20/12 09:40	11/28/12 23:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.44 J		0.50	0.010	mg/L		11/28/12 15:30	11/30/12 14:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/30/12 14:19	1
Boron	0.10 J B		0.50	0.050	mg/L		11/28/12 15:30	11/30/12 14:19	1
Cadmium	0.0021 J		0.0050	0.0020	mg/L		11/28/12 15:30	11/30/12 14:19	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-2-B08-2

Lab Sample ID: 500-52473-32

Date Collected: 11/15/12 12:45

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 14:19	1
Cobalt	0.021	J	0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 14:19	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 14:19	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/30/12 14:19	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/30/12 14:19	1
Manganese	4.2		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 14:19	1
Nickel	0.046		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 14:19	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/30/12 14:19	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 14:19	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/30/12 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 18:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 18:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J B	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 11:52	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0071	J	0.018	0.0070	mg/Kg	☼	12/03/12 16:00	12/04/12 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.81		0.200	0.200	SU			11/20/12 10:40	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-2-B08-3

Lab Sample ID: 500-52473-33

Date Collected: 11/15/12 12:50

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0035	J	0.0043	0.0019	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Bromodichloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Bromoform	<0.0043		0.0043	0.0010	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
1,1-Dichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Ethylbenzene	<0.0043		0.0043	0.00088	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00072	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Trichloroethene	<0.0043		0.0043	0.00072	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	11/15/12 12:50	11/21/12 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		76 - 120	11/15/12 12:50	11/21/12 18:02	1
Dibromofluoromethane	106		73 - 122	11/15/12 12:50	11/21/12 18:02	1
1,2-Dichloroethane-d4 (Surr)	88		74 - 123	11/15/12 12:50	11/21/12 18:02	1
Toluene-d8 (Surr)	100		72 - 122	11/15/12 12:50	11/21/12 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-2-B08-3

Lab Sample ID: 500-52473-33

Date Collected: 11/15/12 12:50

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-2-B08-3

Lab Sample ID: 500-52473-33

Date Collected: 11/15/12 12:50

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/28/12 17:09	12/11/12 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		30 - 110				11/28/12 17:09	12/11/12 13:33	1
Phenol-d5	67		31 - 110				11/28/12 17:09	12/11/12 13:33	1
Nitrobenzene-d5	51		30 - 115				11/28/12 17:09	12/11/12 13:33	1
2-Fluorobiphenyl	61		30 - 119				11/28/12 17:09	12/11/12 13:33	1
2,4,6-Tribromophenol	62		35 - 137				11/28/12 17:09	12/11/12 13:33	1
Terphenyl-d14	77		36 - 134				11/28/12 17:09	12/11/12 13:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J B	1.1	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Arsenic	2.7		0.57	0.12	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Barium	18		0.57	0.068	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Beryllium	0.23		0.23	0.017	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Boron	4.9		2.8	0.53	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Cadmium	0.12		0.11	0.028	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Calcium	100000	B	110	20	mg/Kg	☼	11/20/12 09:40	11/29/12 11:18	10
Chromium	7.0		0.57	0.095	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Cobalt	3.4		0.28	0.030	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Copper	9.6		0.57	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Iron	7700		11	4.9	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Lead	5.7		0.28	0.098	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Magnesium	42000	B	5.7	1.1	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Manganese	260		0.57	0.080	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Nickel	9.2		0.57	0.12	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Potassium	680		28	3.2	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Sodium	290		57	10	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Vanadium	11		0.28	0.043	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1
Zinc	28		1.1	0.39	mg/Kg	☼	11/20/12 09:40	11/28/12 23:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.010	mg/L		11/28/12 08:25	11/28/12 18:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 08:25	11/28/12 18:52	1
Boron	0.082	J	0.50	0.050	mg/L		11/28/12 08:25	11/28/12 18:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 08:25	11/28/12 18:52	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-2-B08-3

Lab Sample ID: 500-52473-33

Date Collected: 11/15/12 12:50

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 08:25	11/28/12 18:52	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 08:25	11/28/12 18:52	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 08:25	11/28/12 18:52	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 08:25	11/28/12 18:52	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 08:25	11/28/12 18:52	1
Manganese	1.5		0.025	0.010	mg/L		11/28/12 08:25	11/28/12 18:52	1
Nickel	<0.025		0.025	0.010	mg/L		11/28/12 08:25	11/28/12 18:52	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 08:25	11/28/12 18:52	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 08:25	11/28/12 18:52	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 08:25	11/28/12 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 08:25	12/04/12 18:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 08:25	12/04/12 18:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J B	0.00020	0.000020	mg/L		11/28/12 16:00	11/29/12 10:15	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0072	mg/Kg	☆	12/03/12 16:00	12/04/12 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.70		0.200	0.200	SU			11/20/12 10:43	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

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



CHAIN OF CUSTODY RECORD

500-52473

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>IL72</u> Project No.: <u>IDOT2011-055</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>SS / CM</u>	COC No.: <u>3 of 6</u> Lab Job No.: Sample Temp:
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Special Instructions:
See Table 2 for complete parameter lists and reporting limit requirements.
*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

ANALYSES												
VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals Inorg	pH	% Solids	Waste Characterization		

Matrix Key:
W - Water
S - Soil
SL - Sludge
SE - Sediment
L - Leachate
DW - Drinking Water
OL - Oil
O - Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals Inorg	pH	% Solids	Waste Characterization	Comments
25	2470-4-B02	11/15	11:15	S	✓	✓					✓	✓	✓	✓		0-4'
26	2470-4-B01		11:25		✓	✓					✓	✓	✓	✓		0-4'
27	2470-3-B10		11:30		✓	✓					✓	✓	✓	✓		0-4'
28	2470-3-B11		11:40		✓	✓					✓	✓	✓	✓		0-4'
29	2470-3-B09		12:20		✓	✓					✓	✓	✓	✓		0-4'
30	2470-3-B08		12:30		✓	✓					✓	✓	✓	✓		0-4'
31	2470-2-B08-1		12:40		✓	✓					✓	✓	✓	✓		0-5'
32	2470-2-B08-2		12:45		✓	✓					✓	✓	✓	✓		5-10'
33	2470-2-B08-3		12:50		✓	✓					✓	✓	✓	✓		10-15'
34	2470-2-B07-1		1:05		✓	✓					✓	✓	✓	✓		0-5'
35	2470-2-B07-2		1:10	S	✓	✓					✓	✓	✓	✓		5-10'
36	TRIP TRIP BLANK	11/15	-	W	✓	✓			✓		✓	✓	✓	✓		-

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/16/12 1:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/16/12 1:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>1500</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/16/12 1500</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:

November 19, 2013

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



RE: IDOT2011-055

WorkOrder: 13110453

Dear Colleen Grey:

TEKLAB, INC received 15 samples on 11/8/2013 3:05:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,



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



Report Contents

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

Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

This reporting package includes the following:

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Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Abbr Definition

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

Qualifiers

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



Case Narrative

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

Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Cooler Receipt Temp: 5.2 °C

Locations and Accreditations

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

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



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110453-001

Client Sample ID: 2470-2-B01

Matrix: SOLID

Collection Date: 11/07/2013 11:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.038	mg/L	1	11/19/2013 11:41	93845
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005	X	0.403	mg/L	1	11/15/2013 12:20	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110453-002

Client Sample ID: 2470-2-B02

Matrix: SOLID

Collection Date: 11/07/2013 11:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.008	0.025	SX	27.7	mg/L	5	11/19/2013 13:57	93845
<i>MS QC limits for Mn are not applicable due to high sample/spike ratio.</i>									
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005	X	0.343	mg/L	1	11/15/2013 12:23	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110453-003

Client Sample ID: 2470-2-B03

Matrix: SOLID

Collection Date: 11/07/2013 11:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0852	mg/L	1	11/15/2013 12:27	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110453-004

Client Sample ID: 2470-2-B04

Matrix: SOLID

Collection Date: 11/07/2013 11:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005	X	0.728	mg/L	1	11/19/2013 12:06	93845
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.016	0.05	X	0.403	mg/L	10	11/15/2013 14:09	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110453-005

Client Sample ID: 2470-2-B04 DUP

Matrix: SOLID

Collection Date: 11/07/2013 11:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005	X	5.3	mg/L	1	11/19/2013 12:09	93845
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.016	0.05	X	0.531	mg/L	10	11/15/2013 14:12	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110453-006

Client Sample ID: 2470-2-B05

Matrix: SOLID

Collection Date: 11/07/2013 12:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.139	mg/L	1	11/19/2013 12:13	93845
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.016	0.05	X	0.854	mg/L	10	11/15/2013 14:16	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110453-007

Client Sample ID: 2470-2-B08-1

Matrix: SOLID

Collection Date: 11/07/2013 10:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005	X	4.3	mg/L	1	11/19/2013 12:17	93845
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.016	0.05	X	0.194	mg/L	10	11/15/2013 14:20	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110453-008

Client Sample ID: 2470-2-B08-2

Matrix: SOLID

Collection Date: 11/07/2013 10:37

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.118	mg/L	1	11/15/2013 13:00	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.
Client Project: IDOT2011-055
Lab ID: 13110453-009
Matrix: SOLID

Work Order: 13110453
Report Date: 19-Nov-13
Client Sample ID: 2470-2-B08-3
Collection Date: 11/07/2013 10:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.013	mg/L	1	11/15/2013 13:04	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110453-010

Client Sample ID: 2470-2-B09

Matrix: SOLID

Collection Date: 11/07/2013 12:52

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.084	mg/L	1	11/15/2013 13:15	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110453-011

Client Sample ID: 2470-2-B09 DUP

Matrix: SOLID

Collection Date: 11/07/2013 12:54

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0451	mg/L	1	11/15/2013 13:18	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110453-012

Client Sample ID: 2470-2-B10

Matrix: SOLID

Collection Date: 11/07/2013 12:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0092	mg/L	1	11/19/2013 12:20	93845
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005	X	0.175	mg/L	1	11/15/2013 13:22	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110453-013

Client Sample ID: 2470-2-B11

Matrix: SOLID

Collection Date: 11/07/2013 12:58

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0268	mg/L	1	11/19/2013 12:24	93845
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.016	0.05	X	0.512	mg/L	10	11/15/2013 14:33	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110453-014

Client Sample ID: 2470-2-B12

Matrix: SOLID

Collection Date: 11/07/2013 13:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0381	mg/L	1	11/19/2013 12:28	93845
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.016	0.05	X	0.668	mg/L	10	11/15/2013 14:36	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110453

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110453-015

Client Sample ID: 2470-2-B06

Matrix: SOLID

Collection Date: 11/07/2013 12:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.123	mg/L	1	11/19/2013 12:31	93845
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005	X	0.51	mg/L	1	11/15/2013 13:43	93726



CHAIN OF CUSTODY RECORD

1 of 2

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: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com		Project Name: <u>Libberts, Kane Co</u> Project No.: <u>F007 2011-055</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>3</u> of <u>6</u> Lab Job No.: <u>1310453</u> Sample Temp: <u>5-10°C</u>	
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.				ANALYSES			
		VOCs SVOCs BETX & MTBE PNAs Pesticides PCBs * Total Metals SPLP/** TCLP Metals PH % Solids Waste Characterization		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other		Comments	
Lab ID <u>1310453</u> <u>001</u> <u>002</u> <u>003</u> <u>004</u> <u>005</u> <u>006</u> <u>007</u> <u>008</u> <u>009</u> <u>010</u> <u>011</u> <u>012</u>	Sample ID <u>2470-2-B01</u> <u>2470-2-B02</u> <u>2470-2-B03</u> <u>2470-2-B04</u> <u>2470-2-B04 DUP</u> <u>2470-2-B05</u> <u>2470-2-B08-1</u> <u>2470-2-B08-2</u> <u>2470-2-B08-3</u> <u>2470-2-B09</u> <u>2470-2-B09 DUP</u> <u>2470-2-B10</u>	Sample Date <u>11/7</u> 	Sample Time <u>11:35</u> <u>11:40</u> <u>11:45</u> <u>11:53</u> <u>11:55</u> <u>12:00</u> <u>10:35</u> <u>10:37</u> <u>10:40</u> <u>12:52</u> <u>12:54</u> <u>12:55</u>	Matrix <u>S</u> <u>S</u>	Comments 	Date/Time 	Date/Time
Relinquished by: <u>[Signature]</u>		Relinquished by: <u>[Signature]</u>		Relinquished by: <u>[Signature]</u>		Relinquished by: <u>[Signature]</u>	
Date/Time <u>11/7 2:30</u>		Date/Time <u>11/8 09:55</u>		Date/Time <u>11/8/13 15:05</u>		Date/Time <u>11/8/13 10:35</u>	
Received by: <u>[Signature]</u>		Received by: <u>[Signature]</u>		Received by: <u>[Signature]</u>		Received by: <u>[Signature]</u>	



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 341 (IL 72) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
40W800 Block of IL 72 (NW Quadrant of IL 72/Big Timber Rd Intersection)

City: Gilberts State: IL Zip Code: 60136

County: Kane Township: Rutland

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

Latitude: 42.09813 Longitude: -88.40390
(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: _____

Zip Code: 60196-1096 Phone: _____

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 341 (IL 72)
Latitude: 42.09813 Longitude: -88.40390

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 2470-3-B01 through -B11 were sampled adjacent to ISGS site No. 2470V-4. See Figures 2 & 5, and Tables 5d and 7 of the revised preliminary site investigation report for sampling details.

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

TestAmerica analytical report - TestAmerica job ID: 500-52473-1, 500-52475-1, & Teklab, Inc. Environmental Laboratory Work Order: 13110454

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

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

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

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: (217)-785-7525

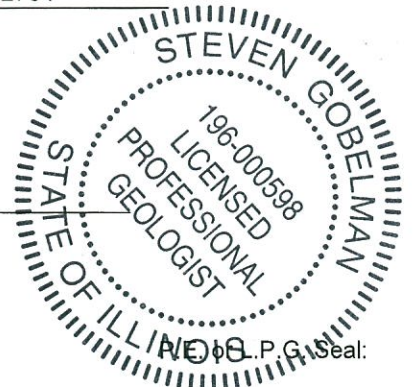
Steven Gobelman, P.E., L.P.G.

Printed Name:

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

9/19/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

- Only parameters reported at concentrations above the most stringent MAC are listed.
- 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 2470V-4
Vacant Lot**

Sample ID	2470-3-B01	2470-3-B02	2470-3-B03	2470-3-B04	2470-3-B05	2470-3-B06	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4	0-4	0-4	0-5	0-5	0-5						
Sample Date	11/15/2012	11/15/2012	11/15/2012	11/15/2012	11/15/2012	11/15/2012						
PID	0	0	0	0	0	0						
Sample pH	8.19	NA	8.53	NA	7.88	7.3						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.												

Sample ID	2470-3-B07	2470-3-B07 DUP	2470-3-B08	2470-3-B09	2470-3-B10	2470-3-B11	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	0-5	0-4	0-4	0-4	0-4						
Sample Date	11/15/2012	11/15/2012	11/15/2012	11/15/2012	11/15/2012	11/15/2012						
PID	0	0	0	0	0	0						
Sample pH	7.48	7.35	7.4	7.17	7.54	8.68						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						
No Contaminants of Concern Noted.												

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-52473-1
Client Project/Site: IDOT - IL 72 - Kane Co. - WO 055

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

Attn: Mike Nelson



Authorized for release by:
12/11/2012 3:38:49 PM

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

LINKS

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www.testamericainc.com

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

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

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

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

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-3-B10

Lab Sample ID: 500-52473-27

Date Collected: 11/15/12 11:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0023	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Bromodichloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Carbon tetrachloride	<0.0052		0.0052	0.00095	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Dibromochloromethane	<0.0052		0.0052	0.00091	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
1,1-Dichloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Ethylbenzene	<0.0052		0.0052	0.0011	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00086	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Tetrachloroethene	<0.0052		0.0052	0.00080	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00072	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00094	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	11/15/12 11:30	11/21/12 06:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		76 - 120	11/15/12 11:30	11/21/12 06:37	1
Dibromofluoromethane	112		73 - 122	11/15/12 11:30	11/21/12 06:37	1
1,2-Dichloroethane-d4 (Surr)	92		74 - 123	11/15/12 11:30	11/21/12 06:37	1
Toluene-d8 (Surr)	102		72 - 122	11/15/12 11:30	11/21/12 06:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/28/12 17:09	12/08/12 20:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/28/12 17:09	12/08/12 20:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 20:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 20:40	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 20:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-3-B10

Lab Sample ID: 500-52473-27

Date Collected: 11/15/12 11:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Isophorone	<0.20		0.20	0.044	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Carbazole	<0.20		0.20	0.055	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Pyrene	<0.039		0.039	0.014	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	*	11/28/12 17:09	12/08/12 20:40	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-3-B10

Lab Sample ID: 500-52473-27

Date Collected: 11/15/12 11:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/28/12 17:09	12/08/12 20:40	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/28/12 17:09	12/08/12 20:40	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	11/28/12 17:09	12/08/12 20:40	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	11/28/12 17:09	12/08/12 20:40	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	11/28/12 17:09	12/08/12 20:40	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	11/28/12 17:09	12/08/12 20:40	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/28/12 17:09	12/08/12 20:40	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/28/12 17:09	12/08/12 20:40	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/28/12 17:09	12/08/12 20:40	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/28/12 17:09	12/08/12 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		30 - 110	11/28/12 17:09	12/08/12 20:40	1
Phenol-d5	57		31 - 110	11/28/12 17:09	12/08/12 20:40	1
Nitrobenzene-d5	55		30 - 115	11/28/12 17:09	12/08/12 20:40	1
2-Fluorobiphenyl	56		30 - 119	11/28/12 17:09	12/08/12 20:40	1
2,4,6-Tribromophenol	62		35 - 137	11/28/12 17:09	12/08/12 20:40	1
Terphenyl-d14	63		36 - 134	11/28/12 17:09	12/08/12 20:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.24	J B	1.1	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Arsenic	6.9		0.56	0.12	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Barium	98		0.56	0.066	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Beryllium	0.61		0.22	0.016	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Boron	1.8	J	2.8	0.52	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Cadmium	0.056	J	0.11	0.028	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Calcium	2300	B	11	2.0	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Chromium	17		0.56	0.093	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Cobalt	10		0.28	0.029	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Copper	15		0.56	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Iron	18000		11	4.8	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Lead	14		0.28	0.096	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Magnesium	3200	B	5.6	1.1	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Manganese	460		0.56	0.079	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Nickel	18		0.56	0.12	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Potassium	950		28	3.2	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Selenium	0.36	J	0.56	0.16	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Sodium	120		56	10	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Vanadium	31		0.28	0.042	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1
Zinc	51		1.1	0.38	mg/Kg	☼	11/20/12 09:40	11/28/12 22:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.54		0.50	0.010	mg/L		11/28/12 15:30	11/30/12 13:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/30/12 13:48	1
Boron	0.071	J	0.50	0.050	mg/L		11/28/12 15:30	11/30/12 13:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/30/12 13:48	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-3-B10

Lab Sample ID: 500-52473-27

Date Collected: 11/15/12 11:30

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:48	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 13:48	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:48	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/30/12 13:48	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/30/12 13:48	1
Manganese	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:48	1
Nickel	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:48	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/30/12 13:48	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 13:48	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/30/12 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 18:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 18:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J B	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 11:39	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0074	mg/Kg	☆	12/03/12 16:00	12/04/12 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.54		0.200	0.200	SU			11/20/12 10:23	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-3-B11

Lab Sample ID: 500-52473-28

Date Collected: 11/15/12 11:40

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0020	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00060	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00060	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Styrene	<0.0045		0.0045	0.00060	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Toluene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	11/15/12 11:40	11/21/12 07:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		76 - 120	11/15/12 11:40	11/21/12 07:00	1
Dibromofluoromethane	114		73 - 122	11/15/12 11:40	11/21/12 07:00	1
1,2-Dichloroethane-d4 (Surr)	95		74 - 123	11/15/12 11:40	11/21/12 07:00	1
Toluene-d8 (Surr)	103		72 - 122	11/15/12 11:40	11/21/12 07:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-3-B11

Lab Sample ID: 500-52473-28

Date Collected: 11/15/12 11:40

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Dibenzofuran	<0.19		0.19	0.047	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Phenanthrene	0.032	J	0.038	0.016	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Fluoranthene	0.049		0.038	0.016	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Pyrene	0.040		0.038	0.014	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Butyl benzyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Benzo[a]anthracene	0.019	J	0.038	0.0081	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Chrysene	0.023	J	0.038	0.0087	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-3-B11

Lab Sample ID: 500-52473-28

Date Collected: 11/15/12 11:40

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Benzo[b]fluoranthene	0.022	J	0.038	0.0075	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Benzo[k]fluoranthene	0.012	J	0.038	0.0092	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Benzo[a]pyrene	0.017	J	0.038	0.0071	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/28/12 17:09	12/08/12 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		30 - 110				11/28/12 17:09	12/08/12 20:57	1
Phenol-d5	56		31 - 110				11/28/12 17:09	12/08/12 20:57	1
Nitrobenzene-d5	51		30 - 115				11/28/12 17:09	12/08/12 20:57	1
2-Fluorobiphenyl	55		30 - 119				11/28/12 17:09	12/08/12 20:57	1
2,4,6-Tribromophenol	68		35 - 137				11/28/12 17:09	12/08/12 20:57	1
Terphenyl-d14	70		36 - 134				11/28/12 17:09	12/08/12 20:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J B	1.1	0.14	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Arsenic	3.8		0.54	0.12	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Barium	36		0.54	0.065	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Beryllium	0.28		0.22	0.016	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Boron	3.7		2.7	0.51	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Cadmium	0.16		0.11	0.027	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Calcium	68000	B	110	19	mg/Kg	☼	11/20/12 09:40	11/29/12 11:14	10
Chromium	7.4		0.54	0.091	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Cobalt	4.8		0.27	0.029	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Copper	9.9		0.54	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Iron	8900		11	4.7	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Lead	10		0.27	0.093	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Magnesium	32000	B	5.4	1.1	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Manganese	290		0.54	0.077	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Nickel	12		0.54	0.12	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Potassium	640		27	3.1	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Selenium	0.32	J	0.54	0.16	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Sodium	360		54	9.9	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Vanadium	14		0.27	0.041	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1
Zinc	37		1.1	0.37	mg/Kg	☼	11/20/12 09:40	11/28/12 22:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.39	J	0.50	0.010	mg/L		11/28/12 15:30	11/30/12 13:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/30/12 13:54	1
Boron	0.10	J	0.50	0.050	mg/L		11/28/12 15:30	11/30/12 13:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/30/12 13:54	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-3-B11

Lab Sample ID: 500-52473-28

Date Collected: 11/15/12 11:40

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:54	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 13:54	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:54	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/30/12 13:54	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/30/12 13:54	1
Manganese	0.32		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:54	1
Nickel	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:54	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/30/12 13:54	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 13:54	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/30/12 13:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 18:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 18:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J B	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 11:41	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.019	0.0072	mg/Kg	☆	12/03/12 16:00	12/04/12 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.68		0.200	0.200	SU			11/20/12 10:26	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-3-B09

Lab Sample ID: 500-52473-29

Date Collected: 11/15/12 12:20

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Carbon tetrachloride	<0.0051		0.0051	0.00092	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Chlorobenzene	<0.0051		0.0051	0.00051	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Chloroform	<0.0051		0.0051	0.00058	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Dibromochloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	11/15/12 12:20	11/21/12 07:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		76 - 120	11/15/12 12:20	11/21/12 07:22	1
Dibromofluoromethane	112		73 - 122	11/15/12 12:20	11/21/12 07:22	1
1,2-Dichloroethane-d4 (Surr)	94		74 - 123	11/15/12 12:20	11/21/12 07:22	1
Toluene-d8 (Surr)	102		72 - 122	11/15/12 12:20	11/21/12 07:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-3-B09

Lab Sample ID: 500-52473-29

Date Collected: 11/15/12 12:20

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-3-B09

Lab Sample ID: 500-52473-29

Date Collected: 11/15/12 12:20

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/28/12 17:09	12/11/12 12:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		30 - 110				11/28/12 17:09	12/11/12 12:09	1
Phenol-d5	69		31 - 110				11/28/12 17:09	12/11/12 12:09	1
Nitrobenzene-d5	56		30 - 115				11/28/12 17:09	12/11/12 12:09	1
2-Fluorobiphenyl	67		30 - 119				11/28/12 17:09	12/11/12 12:09	1
2,4,6-Tribromophenol	68		35 - 137				11/28/12 17:09	12/11/12 12:09	1
Terphenyl-d14	80		36 - 134				11/28/12 17:09	12/11/12 12:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.23	J B	1.1	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Arsenic	7.0		0.56	0.12	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Barium	89		0.56	0.067	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Beryllium	0.62		0.22	0.016	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Boron	1.8	J	2.8	0.52	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Cadmium	0.043	J	0.11	0.028	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Calcium	1900	B	11	2.0	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Chromium	14		0.56	0.094	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Cobalt	10		0.28	0.029	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Copper	13		0.56	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Iron	16000		11	4.9	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Lead	14		0.28	0.097	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Magnesium	2600	B	5.6	1.1	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Manganese	400		0.56	0.079	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Nickel	22		0.56	0.12	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Potassium	690		28	3.2	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Selenium	0.53	J	0.56	0.16	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Sodium	54	J	56	10	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Vanadium	28		0.28	0.043	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1
Zinc	52		1.1	0.39	mg/Kg	☼	11/20/12 09:40	11/28/12 22:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.51		0.50	0.010	mg/L		11/28/12 15:30	11/30/12 14:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/30/12 14:00	1
Boron	0.077	J	0.50	0.050	mg/L		11/28/12 15:30	11/30/12 14:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/30/12 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-3-B09

Lab Sample ID: 500-52473-29

Date Collected: 11/15/12 12:20

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 14:00	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 14:00	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 14:00	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/30/12 14:00	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/30/12 14:00	1
Manganese	0.051		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 14:00	1
Nickel	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 14:00	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/30/12 14:00	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 14:00	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/30/12 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 18:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 18:08	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J B	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 11:43	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.017	0.0065	mg/Kg	☼	12/03/12 16:00	12/04/12 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.17		0.200	0.200	SU			11/20/12 10:30	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-3-B08

Lab Sample ID: 500-52473-30

Date Collected: 11/15/12 12:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1
Xylenes, Total	<0.0096		0.0096	0.00044	mg/Kg	☼	11/15/12 12:30	11/21/12 07:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		76 - 120	11/15/12 12:30	11/21/12 07:45	1
Dibromofluoromethane	111		73 - 122	11/15/12 12:30	11/21/12 07:45	1
1,2-Dichloroethane-d4 (Surr)	100		74 - 123	11/15/12 12:30	11/21/12 07:45	1
Toluene-d8 (Surr)	105		72 - 122	11/15/12 12:30	11/21/12 07:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-3-B08

Lab Sample ID: 500-52473-30

Date Collected: 11/15/12 12:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-3-B08

Lab Sample ID: 500-52473-30

Date Collected: 11/15/12 12:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	11/28/12 17:09	12/11/12 12:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		30 - 110				11/28/12 17:09	12/11/12 12:30	1
Phenol-d5	76		31 - 110				11/28/12 17:09	12/11/12 12:30	1
Nitrobenzene-d5	57		30 - 115				11/28/12 17:09	12/11/12 12:30	1
2-Fluorobiphenyl	72		30 - 119				11/28/12 17:09	12/11/12 12:30	1
2,4,6-Tribromophenol	71		35 - 137				11/28/12 17:09	12/11/12 12:30	1
Terphenyl-d14	83		36 - 134				11/28/12 17:09	12/11/12 12:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.18	J B	1.1	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Arsenic	7.3		0.57	0.13	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Barium	110		0.57	0.068	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Beryllium	0.74		0.23	0.017	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Boron	2.0	J	2.9	0.54	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Cadmium	0.041	J	0.11	0.028	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Calcium	2500	B	11	2.0	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Chromium	18		0.57	0.096	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Cobalt	9.2		0.29	0.030	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Copper	17		0.57	0.16	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Iron	20000		11	5.0	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Lead	12		0.29	0.099	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Magnesium	3700	B	5.7	1.1	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Manganese	440		0.57	0.081	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Nickel	20		0.57	0.13	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Potassium	840		29	3.3	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Selenium	0.57		0.57	0.16	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Sodium	99		57	11	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Vanadium	30		0.29	0.044	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1
Zinc	57		1.1	0.39	mg/Kg	☼	11/20/12 09:40	11/28/12 23:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J	0.50	0.010	mg/L		11/28/12 15:30	11/30/12 14:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/30/12 14:07	1
Boron	0.075	J	0.50	0.050	mg/L		11/28/12 15:30	11/30/12 14:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/30/12 14:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-3-B08

Lab Sample ID: 500-52473-30

Date Collected: 11/15/12 12:30

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 14:07	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 14:07	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 14:07	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/30/12 14:07	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/30/12 14:07	1
Manganese	0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 14:07	1
Nickel	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 14:07	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/30/12 14:07	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 14:07	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/30/12 14:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 18:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 18:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J B	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 11:44	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.019	0.0074	mg/Kg	☆	12/03/12 16:00	12/04/12 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.40		0.200	0.200	SU			11/20/12 10:33	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

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



CHAIN OF CUSTODY RECORD

500-52473

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>IL72</u> Project No.: <u>IDOT2011-055</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>SS / CM</u>	COC No.: <u>3 of 6</u> Lab Job No.: Sample Temp:
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Special Instructions:
See Table 2 for complete parameter lists and reporting limit requirements.
*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

ANALYSES											
VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals Inorg	pH	% Solids	Waste Characterization	

Matrix Key:
W - Water
S - Soil
SL - Sludge
SE - Sediment
L - Leachate
DW - Drinking Water
OL - Oil
O - Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals Inorg	pH	% Solids	Waste Characterization	Comments
25	2470-4-B02	11/15	11:15	S	✓	✓					✓	✓	✓	✓		0-4'
26	2470-4-B01		11:25		✓	✓					✓	✓	✓	✓		0-4'
27	2470-3-B10		11:30		✓	✓					✓	✓	✓	✓		0-4'
28	2470-3-B11		11:40		✓	✓					✓	✓	✓	✓		0-4'
29	2470-3-B09		12:20		✓	✓					✓	✓	✓	✓		0-4'
30	2470-3-B08		12:30		✓	✓					✓	✓	✓	✓		0-4'
31	2470-2-B08-1		12:40		✓	✓					✓	✓	✓	✓		0-5'
32	2470-2-B08-2		12:45		✓	✓					✓	✓	✓	✓		5-10'
33	2470-2-B08-3		12:50		✓	✓					✓	✓	✓	✓		10-15'
34	2470-2-B07-1		1:05		✓	✓					✓	✓	✓	✓		0-5'
35	2470-2-B07-2		1:10	S	✓	✓					✓	✓	✓	✓		5-10'
36	TRIP BLANK	11/15	-	W	✓	✓			✓		✓	✓	✓	✓		-

Relinquished by: <u>[Signature]</u> Date/Time: <u>11/16/12 1:30</u>	Received by: <u>[Signature]</u> Date/Time: <u>11/16/12 1:00</u>
Relinquished by: <u>[Signature]</u> Date/Time: <u>11/16/12 1:50</u>	Received by: <u>[Signature]</u> Date/Time: <u>11/16/12 1:50</u>
Relinquished by:	Received by:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-52475-1
Client Project/Site: IDOT - IL 72 - Kane Co. - WO 055

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

Attn: Mike Nelson



Authorized for release by:
12/10/2012 4:43:20 PM

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

LINKS

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results through
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www.testamericainc.com

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

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

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

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

Sample Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-52475-1	2470-2-B07-3	Solid	11/15/12 13:15	11/16/12 15:00
500-52475-2	2470-3-B07	Solid	11/15/12 13:25	11/16/12 15:00
500-52475-3	2470-3-B07 DUP	Solid	11/15/12 13:30	11/16/12 15:00
500-52475-4	2470-3-B06	Solid	11/15/12 13:40	11/16/12 15:00
500-52475-5	2470-3-B05	Solid	11/15/12 13:50	11/16/12 15:00
500-52475-6	2470-3-B04	Solid	11/15/12 14:00	11/16/12 15:00
500-52475-7	2470-3-B03	Solid	11/15/12 14:10	11/16/12 15:00
500-52475-8	2470-3-B02	Solid	11/15/12 14:20	11/16/12 15:00
500-52475-9	2470-3-B01	Solid	11/15/12 14:30	11/16/12 15:00
500-52475-10	2470-2-B01	Solid	11/16/12 09:45	11/16/12 15:00
500-52475-11	2470-2-B02	Solid	11/16/12 09:50	11/16/12 15:00
500-52475-12	2470-2-B03	Solid	11/16/12 10:00	11/16/12 15:00
500-52475-13	2470-2-B04	Solid	11/16/12 10:05	11/16/12 15:00
500-52475-14	2470-2-B04 DUP	Solid	11/16/12 10:15	11/16/12 15:00
500-52475-15	2470-2-B05	Solid	11/16/12 10:20	11/16/12 15:00
500-52475-16	2470-2-B06	Solid	11/16/12 10:25	11/16/12 15:00
500-52475-17	2470-2-B09	Solid	11/16/12 10:30	11/16/12 15:00
500-52475-18	2470-2-B09 DUP	Solid	11/16/12 10:35	11/16/12 15:00
500-52475-19	2470-2-B10	Solid	11/16/12 10:45	11/16/12 15:00
500-52475-20	2470-2-B11	Solid	11/16/12 10:50	11/16/12 15:00
500-52475-21	2470-2-B12	Solid	11/16/12 11:00	11/16/12 15:00
500-52475-22	2470-1-B14	Solid	11/16/12 11:05	11/16/12 15:00
500-52475-23	2470-1-B13	Solid	11/16/12 11:10	11/16/12 15:00
500-52475-24	2470-1-B12	Solid	11/16/12 11:15	11/16/12 15:00
500-52475-25	2470-1-B11	Solid	11/16/12 11:25	11/16/12 15:00

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B07

Lab Sample ID: 500-52475-2

Date Collected: 11/15/12 13:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	11/15/12 13:25	11/20/12 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/15/12 13:25	11/20/12 16:47	1
Dibromofluoromethane	106		73 - 122	11/15/12 13:25	11/20/12 16:47	1
1,2-Dichloroethane-d4 (Surr)	92		74 - 123	11/15/12 13:25	11/20/12 16:47	1
Toluene-d8 (Surr)	99		72 - 122	11/15/12 13:25	11/20/12 16:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B07

Lab Sample ID: 500-52475-2

Date Collected: 11/15/12 13:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B07

Lab Sample ID: 500-52475-2

Date Collected: 11/15/12 13:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/29/12 07:15	12/08/12 12:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	91		30 - 110				11/29/12 07:15	12/08/12 12:21	1
Phenol-d5	84		31 - 110				11/29/12 07:15	12/08/12 12:21	1
Nitrobenzene-d5	71		30 - 115				11/29/12 07:15	12/08/12 12:21	1
2-Fluorobiphenyl	85		30 - 119				11/29/12 07:15	12/08/12 12:21	1
2,4,6-Tribromophenol	77		35 - 137				11/29/12 07:15	12/08/12 12:21	1
Terphenyl-d14	96		36 - 134				11/29/12 07:15	12/08/12 12:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Arsenic	4.8		0.55	0.12	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Barium	72 B		0.55	0.065	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Beryllium	0.49		0.22	0.016	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Boron	0.87 J		2.7	0.51	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Cadmium	0.027 J		0.11	0.027	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Calcium	2000 B		11	1.9	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Chromium	13		0.55	0.091	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Cobalt	5.9		0.27	0.029	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Copper	12		0.55	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Iron	14000 B		11	4.7	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Lead	7.6		0.27	0.094	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Magnesium	2400 B		5.5	1.1	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Manganese	240 B		0.55	0.077	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Nickel	21		0.55	0.12	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Potassium	590		27	3.1	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Selenium	0.45 J		0.55	0.16	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Sodium	47 J B		55	10	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Vanadium	18		0.27	0.041	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1
Zinc	50 B		1.1	0.37	mg/Kg	☼	11/20/12 16:00	11/29/12 23:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53		0.50	0.010	mg/L		11/27/12 15:00	11/30/12 23:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	11/30/12 23:39	1
Boron	0.18 J B		0.50	0.050	mg/L		11/27/12 15:00	11/30/12 23:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	11/30/12 23:39	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B07

Lab Sample ID: 500-52475-2

Date Collected: 11/15/12 13:25

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/30/12 23:39	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	11/30/12 23:39	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/30/12 23:39	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	11/30/12 23:39	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	11/30/12 23:39	1
Manganese	0.024	J	0.025	0.010	mg/L		11/27/12 15:00	11/30/12 23:39	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/30/12 23:39	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	11/30/12 23:39	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	11/30/12 23:39	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	11/30/12 23:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:26	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	*	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 09:30	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0069	mg/Kg	☼	12/03/12 16:00	12/04/12 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.48		0.200	0.200	SU			11/20/12 10:56	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B07 DUP

Lab Sample ID: 500-52475-3

Date Collected: 11/15/12 13:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	11/15/12 13:30	11/20/12 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		76 - 120	11/15/12 13:30	11/20/12 17:10	1
Dibromofluoromethane	110		73 - 122	11/15/12 13:30	11/20/12 17:10	1
1,2-Dichloroethane-d4 (Surr)	89		74 - 123	11/15/12 13:30	11/20/12 17:10	1
Toluene-d8 (Surr)	100		72 - 122	11/15/12 13:30	11/20/12 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B07 DUP

Lab Sample ID: 500-52475-3

Date Collected: 11/15/12 13:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B07 DUP

Lab Sample ID: 500-52475-3

Date Collected: 11/15/12 13:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/29/12 07:15	12/08/12 12:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		30 - 110				11/29/12 07:15	12/08/12 12:42	1
Phenol-d5	89		31 - 110				11/29/12 07:15	12/08/12 12:42	1
Nitrobenzene-d5	72		30 - 115				11/29/12 07:15	12/08/12 12:42	1
2-Fluorobiphenyl	88		30 - 119				11/29/12 07:15	12/08/12 12:42	1
2,4,6-Tribromophenol	78		35 - 137				11/29/12 07:15	12/08/12 12:42	1
Terphenyl-d14	105		36 - 134				11/29/12 07:15	12/08/12 12:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Arsenic	7.2		0.56	0.12	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Barium	98 B		0.56	0.067	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Beryllium	0.73		0.22	0.016	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Boron	0.65 J		2.8	0.52	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Cadmium	<0.11		0.11	0.028	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Calcium	2400 B		11	2.0	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Chromium	15		0.56	0.094	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Cobalt	7.4		0.28	0.029	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Copper	19		0.56	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Iron	19000 B		11	4.9	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Lead	12		0.28	0.097	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Magnesium	3300 B		5.6	1.1	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Manganese	320 B		0.56	0.079	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Nickel	20		0.56	0.12	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Potassium	610		28	3.2	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Selenium	0.52 J		0.56	0.16	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Sodium	63 B		56	10	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Vanadium	22		0.28	0.043	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1
Zinc	50 B		1.1	0.38	mg/Kg	☼	11/20/12 16:00	11/29/12 23:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.42 J		0.50	0.010	mg/L		11/27/12 15:00	11/30/12 23:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	11/30/12 23:45	1
Boron	0.089 J B		0.50	0.050	mg/L		11/27/12 15:00	11/30/12 23:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	11/30/12 23:45	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B07 DUP

Lab Sample ID: 500-52475-3

Date Collected: 11/15/12 13:30

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/30/12 23:45	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	11/30/12 23:45	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/30/12 23:45	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	11/30/12 23:45	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	11/30/12 23:45	1
Manganese	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/30/12 23:45	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/30/12 23:45	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	11/30/12 23:45	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	11/30/12 23:45	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	11/30/12 23:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:27	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00015	J *	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 09:32	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0074	mg/Kg	☼	12/03/12 16:00	12/04/12 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.35		0.200	0.200	SU			11/20/12 11:00	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B06

Lab Sample ID: 500-52475-4

Date Collected: 11/15/12 13:40

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1
Xylenes, Total	<0.0096		0.0096	0.00044	mg/Kg	☼	11/15/12 13:40	11/20/12 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/15/12 13:40	11/20/12 17:33	1
Dibromofluoromethane	109		73 - 122	11/15/12 13:40	11/20/12 17:33	1
1,2-Dichloroethane-d4 (Surr)	92		74 - 123	11/15/12 13:40	11/20/12 17:33	1
Toluene-d8 (Surr)	98		72 - 122	11/15/12 13:40	11/20/12 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B06

Lab Sample ID: 500-52475-4

Date Collected: 11/15/12 13:40

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B06

Lab Sample ID: 500-52475-4

Date Collected: 11/15/12 13:40

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	11/29/12 07:15	12/08/12 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	92		30 - 110				11/29/12 07:15	12/08/12 13:03	1
Phenol-d5	82		31 - 110				11/29/12 07:15	12/08/12 13:03	1
Nitrobenzene-d5	68		30 - 115				11/29/12 07:15	12/08/12 13:03	1
2-Fluorobiphenyl	87		30 - 119				11/29/12 07:15	12/08/12 13:03	1
2,4,6-Tribromophenol	78		35 - 137				11/29/12 07:15	12/08/12 13:03	1
Terphenyl-d14	98		36 - 134				11/29/12 07:15	12/08/12 13:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Arsenic	6.2		0.57	0.12	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Barium	82 B		0.57	0.068	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Beryllium	0.47		0.23	0.017	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Boron	1.2 J		2.9	0.53	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Cadmium	0.044 J		0.11	0.028	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Calcium	2800 B		11	2.0	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Chromium	12		0.57	0.096	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Cobalt	7.0		0.29	0.030	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Copper	12		0.57	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Iron	15000 B		11	5.0	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Lead	9.8		0.29	0.098	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Magnesium	3100 B		5.7	1.1	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Manganese	320 B		0.57	0.081	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Nickel	18		0.57	0.13	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Potassium	600		29	3.2	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Selenium	0.44 J		0.57	0.16	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Sodium	140 B		57	10	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Vanadium	22		0.29	0.043	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1
Zinc	43 B		1.1	0.39	mg/Kg	☼	11/20/12 16:00	11/29/12 23:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.82		0.50	0.010	mg/L		11/27/12 15:00	11/30/12 23:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	11/30/12 23:51	1
Boron	0.13 J B		0.50	0.050	mg/L		11/27/12 15:00	11/30/12 23:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	11/30/12 23:51	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B06

Lab Sample ID: 500-52475-4

Date Collected: 11/15/12 13:40

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/30/12 23:51	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	11/30/12 23:51	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/30/12 23:51	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	11/30/12 23:51	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	11/30/12 23:51	1
Manganese	0.25		0.025	0.010	mg/L		11/27/12 15:00	11/30/12 23:51	1
Nickel	0.016	J	0.025	0.010	mg/L		11/27/12 15:00	11/30/12 23:51	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	11/30/12 23:51	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	11/30/12 23:51	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	11/30/12 23:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:28	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J *	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 09:38	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0069	mg/Kg	☼	12/03/12 16:00	12/04/12 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.30		0.200	0.200	SU			11/20/12 11:03	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B05

Lab Sample ID: 500-52475-5

Date Collected: 11/15/12 13:50

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1
Xylenes, Total	<0.0094		0.0094	0.00042	mg/Kg	☼	11/15/12 13:50	11/20/12 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		76 - 120	11/15/12 13:50	11/20/12 17:55	1
Dibromofluoromethane	116		73 - 122	11/15/12 13:50	11/20/12 17:55	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/15/12 13:50	11/20/12 17:55	1
Toluene-d8 (Surr)	100		72 - 122	11/15/12 13:50	11/20/12 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B05

Lab Sample ID: 500-52475-5

Date Collected: 11/15/12 13:50

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B05

Lab Sample ID: 500-52475-5

Date Collected: 11/15/12 13:50

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	11/29/12 07:15	12/08/12 13:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	93		30 - 110				11/29/12 07:15	12/08/12 13:24	1
Phenol-d5	91		31 - 110				11/29/12 07:15	12/08/12 13:24	1
Nitrobenzene-d5	69		30 - 115				11/29/12 07:15	12/08/12 13:24	1
2-Fluorobiphenyl	92		30 - 119				11/29/12 07:15	12/08/12 13:24	1
2,4,6-Tribromophenol	85		35 - 137				11/29/12 07:15	12/08/12 13:24	1
Terphenyl-d14	108		36 - 134				11/29/12 07:15	12/08/12 13:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Arsenic	7.1		0.54	0.12	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Barium	74 B		0.54	0.064	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Beryllium	0.52		0.22	0.016	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Boron	2.1 J		2.7	0.50	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Cadmium	0.065 J		0.11	0.027	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Calcium	24000 B		11	1.9	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Chromium	13		0.54	0.090	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Cobalt	9.3		0.27	0.028	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Copper	16		0.54	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Iron	16000 B		11	4.7	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Lead	13		0.27	0.093	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Magnesium	16000 B		5.4	1.0	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Manganese	420 B		0.54	0.076	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Nickel	22		0.54	0.12	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Potassium	740		27	3.1	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Selenium	0.41 J		0.54	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Sodium	77 B		54	9.9	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Vanadium	23		0.27	0.041	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1
Zinc	52 B		1.1	0.37	mg/Kg	☼	11/20/12 16:00	11/29/12 23:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.84		0.50	0.010	mg/L		11/27/12 15:00	11/30/12 23:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	11/30/12 23:58	1
Boron	0.065 J B		0.50	0.050	mg/L		11/27/12 15:00	11/30/12 23:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	11/30/12 23:58	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B05

Lab Sample ID: 500-52475-5

Date Collected: 11/15/12 13:50

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/30/12 23:58	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	11/30/12 23:58	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	11/30/12 23:58	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	11/30/12 23:58	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	11/30/12 23:58	1
Manganese	0.27		0.025	0.010	mg/L		11/27/12 15:00	11/30/12 23:58	1
Nickel	0.014	J	0.025	0.010	mg/L		11/27/12 15:00	11/30/12 23:58	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	11/30/12 23:58	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	11/30/12 23:58	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	11/30/12 23:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:29	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J*	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 09:40	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0068	mg/Kg	☼	12/03/12 16:00	12/04/12 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU			11/21/12 09:39	1

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B04

Lab Sample ID: 500-52475-6

Date Collected: 11/15/12 14:00

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Bromomethane	<0.0051		0.0051	0.0016	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
2-Butanone (MEK)	<0.0051		0.0051	0.0019	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Carbon disulfide	<0.0051		0.0051	0.00077	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00073	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
1,1,1-Dichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00077	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Trichloroethene	<0.0051		0.0051	0.00085	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	11/15/12 14:00	11/20/12 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		76 - 120	11/15/12 14:00	11/20/12 18:18	1
Dibromofluoromethane	108		73 - 122	11/15/12 14:00	11/20/12 18:18	1
1,2-Dichloroethane-d4 (Surr)	97		74 - 123	11/15/12 14:00	11/20/12 18:18	1
Toluene-d8 (Surr)	99		72 - 122	11/15/12 14:00	11/20/12 18:18	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B03

Lab Sample ID: 500-52475-7

Date Collected: 11/15/12 14:10

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0022	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	11/15/12 14:10	11/20/12 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/15/12 14:10	11/20/12 18:41	1
Dibromofluoromethane	110		73 - 122	11/15/12 14:10	11/20/12 18:41	1
1,2-Dichloroethane-d4 (Surr)	98		74 - 123	11/15/12 14:10	11/20/12 18:41	1
Toluene-d8 (Surr)	102		72 - 122	11/15/12 14:10	11/20/12 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B03

Lab Sample ID: 500-52475-7

Date Collected: 11/15/12 14:10

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Naphthalene	<0.035		0.035	0.0069	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Hexachlorocyclopentadiene	<0.72		0.72	0.17	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
3-Nitroaniline	<0.35		0.35	0.069	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Acenaphthylene	<0.035		0.035	0.0082	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.087	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Anthracene	<0.035		0.035	0.0084	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Benzo[a]anthracene	<0.035		0.035	0.0075	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Chrysene	<0.035		0.035	0.0081	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B03

Lab Sample ID: 500-52475-7

Date Collected: 11/15/12 14:10

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Benzo[b]fluoranthene	<0.035		0.035	0.0069	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Benzo[k]fluoranthene	<0.035		0.035	0.0085	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Benzo[a]pyrene	<0.035		0.035	0.0065	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Dibenz(a,h)anthracene	<0.035		0.035	0.010	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	11/29/12 07:15	12/08/12 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		30 - 110				11/29/12 07:15	12/08/12 13:46	1
Phenol-d5	88		31 - 110				11/29/12 07:15	12/08/12 13:46	1
Nitrobenzene-d5	74		30 - 115				11/29/12 07:15	12/08/12 13:46	1
2-Fluorobiphenyl	91		30 - 119				11/29/12 07:15	12/08/12 13:46	1
2,4,6-Tribromophenol	83		35 - 137				11/29/12 07:15	12/08/12 13:46	1
Terphenyl-d14	106		36 - 134				11/29/12 07:15	12/08/12 13:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.0	0.13	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Arsenic	5.6		0.50	0.11	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Barium	15	B	0.50	0.059	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Beryllium	0.18	J	0.20	0.015	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Boron	3.2		2.5	0.46	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Cadmium	0.084	J	0.10	0.025	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Calcium	86000	B	100	18	mg/Kg	☼	11/20/12 16:00	11/30/12 13:20	10
Chromium	5.9		0.50	0.083	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Cobalt	3.6		0.25	0.026	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Copper	11		0.50	0.14	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Iron	9600	B	10	4.3	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Lead	8.8		0.25	0.086	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Magnesium	37000	B	5.0	0.97	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Manganese	290	B	0.50	0.070	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Nickel	10		0.50	0.11	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Potassium	350		25	2.8	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Selenium	0.33	J	0.50	0.14	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Sodium	180	B	50	9.1	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Thallium	<0.50		0.50	0.13	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Vanadium	10		0.25	0.038	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1
Zinc	39	B	1.0	0.34	mg/Kg	☼	11/20/12 16:00	11/29/12 23:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.28	J	0.50	0.010	mg/L		11/27/12 15:00	12/01/12 00:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	12/01/12 00:04	1
Boron	0.089	J B	0.50	0.050	mg/L		11/27/12 15:00	12/01/12 00:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	12/01/12 00:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B03

Lab Sample ID: 500-52475-7

Date Collected: 11/15/12 14:10

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:04	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 00:04	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:04	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	12/01/12 00:04	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	12/01/12 00:04	1
Manganese	0.85		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:04	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:04	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	12/01/12 00:04	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 00:04	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	12/01/12 00:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:29	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J *	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 09:42	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0066	mg/Kg	☼	12/03/12 16:00	12/04/12 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.53		0.200	0.200	SU			11/21/12 09:45	1

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B02

Lab Sample ID: 500-52475-8

Date Collected: 11/15/12 14:20

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Dibromochloromethane	<0.0046		0.0046	0.00081	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
1,1-Dichloroethene	<0.0046		0.0046	0.00075	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Ethylbenzene	<0.0046		0.0046	0.00094	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00077	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00094	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	*	11/15/12 14:20	11/20/12 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/15/12 14:20	11/20/12 19:04	1
Dibromofluoromethane	113		73 - 122	11/15/12 14:20	11/20/12 19:04	1
1,2-Dichloroethane-d4 (Surr)	96		74 - 123	11/15/12 14:20	11/20/12 19:04	1
Toluene-d8 (Surr)	101		72 - 122	11/15/12 14:20	11/20/12 19:04	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B01

Lab Sample ID: 500-52475-9

Date Collected: 11/15/12 14:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00082	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00089	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Trichloroethene	<0.0049		0.0049	0.00082	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	11/15/12 14:30	11/20/12 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/15/12 14:30	11/20/12 19:26	1
Dibromofluoromethane	107		73 - 122	11/15/12 14:30	11/20/12 19:26	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/15/12 14:30	11/20/12 19:26	1
Toluene-d8 (Surr)	99		72 - 122	11/15/12 14:30	11/20/12 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B01

Lab Sample ID: 500-52475-9

Date Collected: 11/15/12 14:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Naphthalene	<0.037		0.037	0.0073	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Acenaphthylene	<0.037		0.037	0.0087	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.092	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Anthracene	<0.037		0.037	0.0089	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B01

Lab Sample ID: 500-52475-9

Date Collected: 11/15/12 14:30

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Benzo[a]pyrene	<0.037		0.037	0.0069	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/29/12 07:15	12/08/12 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		30 - 110				11/29/12 07:15	12/08/12 14:07	1
Phenol-d5	92		31 - 110				11/29/12 07:15	12/08/12 14:07	1
Nitrobenzene-d5	76		30 - 115				11/29/12 07:15	12/08/12 14:07	1
2-Fluorobiphenyl	94		30 - 119				11/29/12 07:15	12/08/12 14:07	1
2,4,6-Tribromophenol	87		35 - 137				11/29/12 07:15	12/08/12 14:07	1
Terphenyl-d14	118		36 - 134				11/29/12 07:15	12/08/12 14:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Arsenic	8.5		0.56	0.12	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Barium	100	B	0.56	0.067	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Beryllium	0.71		0.22	0.016	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Boron	1.7	J	2.8	0.52	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Cadmium	0.040	J	0.11	0.028	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Calcium	3200	B	11	2.0	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Chromium	16		0.56	0.094	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Cobalt	11		0.28	0.029	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Copper	16		0.56	0.15	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Iron	20000	B	11	4.9	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Lead	23		0.28	0.096	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Magnesium	3500	B	5.6	1.1	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Manganese	430	B	0.56	0.079	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Nickel	22		0.56	0.12	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Potassium	810		28	3.2	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Selenium	0.74		0.56	0.16	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Sodium	760	B	56	10	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Vanadium	30		0.28	0.043	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1
Zinc	60	B	1.1	0.38	mg/Kg	☼	11/20/12 16:00	11/29/12 23:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.010	mg/L		11/27/12 15:00	12/01/12 00:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/27/12 15:00	12/01/12 00:10	1
Boron	0.086	J B	0.50	0.050	mg/L		11/27/12 15:00	12/01/12 00:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/27/12 15:00	12/01/12 00:10	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Client Sample ID: 2470-3-B01

Lab Sample ID: 500-52475-9

Date Collected: 11/15/12 14:30

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:10	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 00:10	1
Copper	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:10	1
Iron	<0.20		0.20	0.20	mg/L		11/27/12 15:00	12/01/12 00:10	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/27/12 15:00	12/01/12 00:10	1
Manganese	0.031		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:10	1
Nickel	<0.025		0.025	0.010	mg/L		11/27/12 15:00	12/01/12 00:10	1
Selenium	<0.050		0.050	0.010	mg/L		11/27/12 15:00	12/01/12 00:10	1
Silver	<0.025		0.025	0.0050	mg/L		11/27/12 15:00	12/01/12 00:10	1
Zinc	<0.10		0.10	0.020	mg/L		11/27/12 15:00	12/01/12 00:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/27/12 15:00	12/04/12 18:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/27/12 15:00	12/04/12 18:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J *	0.00020	0.000020	mg/L		12/04/12 14:30	12/05/12 09:44	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0072	mg/Kg	☼	12/03/12 16:00	12/04/12 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU			11/21/12 09:51	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52475-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

Glossary

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



CHAIN OF CUSTODY RECORD

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>1L72</u> Project No.: <u>IDOT2011-055</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>55 / CM</u>					COC No.: <u>4 of 6</u> Lab Job No.: <u>500-52475</u> Sample Temp: <u>4.8, 4.5, 4.7</u>	
Special Instructions: See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.					ANALYSES										Matrix Key: W - Water S - Soil SL - Sludge SE - Sediment L - Leachate DW - Drinking Water OL - Oil O - Other	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals / Inorg	TCLP/*SPLP Metals / Inorg	pH	% Solids	Waste Characterization	Comments
1	2470-2-B07-3	11/15	1:15	S	✓	✓					✓	✓	✓	✓		10-15'
2	2470-3-B07		1:25	S	✓	✓					✓	✓	✓	✓		0-5'
3	2470-3-B07BWP		1:30	S	✓	✓					✓	✓	✓	✓		0-5'
4	2470-3-B06		1:40	S	✓	✓					✓	✓	✓	✓		0-5'
5	2470-3-B05		1:50	S	✓	✓					✓	✓	✓	✓		0-5'
6	2470-3-B04		2:00	S	✓	✓					✓	✓	✓	✓		0-5'
7	2470-3-B03		2:10	S	✓	✓					✓	✓	✓	✓		0-4'
8	2470-3-B02		2:20	S	✓	✓					✓	✓	✓	✓		0-4'
9	2470-3-B01	11/15	2:30	S	✓	✓					✓	✓	✓	✓		0-4'
10	2470-2-B01	11/16	9:45	S	✓	✓					✓	✓	✓	✓		0-4'
11	2470-2-B02	11/16	9:50	S	✓	✓					✓	✓	✓	✓		0-5'
12	2470-2-B03	11/16	10:00	S	✓	✓					✓	✓	✓	✓		0-5'
Relinquished by: <i>[Signature]</i> 11/16/12					Date/Time: 11/16/12 1:30					Received by: <i>[Signature]</i> 11/16/12					Date/Time: 11/16/12 1:00	
Relinquished by: <i>[Signature]</i> 11/16/12					Date/Time: 11/16/12 1:50					Received by: <i>[Signature]</i>					Date/Time: 11/16/12 1:50	
Relinquished by:					Date/Time:					Received by:					Date/Time:	

November 19, 2013

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



RE: IDOT2011-055

WorkOrder: 13110454

Dear Colleen Grey:

TEKLAB, INC received 11 samples on 11/8/2013 3:05:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,



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



Report Contents

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

Client: Andrews Engineering, Inc.

Work Order: 13110454

Client Project: IDOT2011-055

Report Date: 19-Nov-13

This reporting package includes the following:

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Receiving Check List	18
Chain of Custody	Appended

Client: Andrews Engineering, Inc.

Work Order: 13110454

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Abbr Definition

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

Qualifiers

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



Case Narrative

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

Client: Andrews Engineering, Inc.

Work Order: 13110454

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Cooler Receipt Temp: 5.2 °C

Locations and Accreditations

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

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



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110454

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110454-001

Client Sample ID: 2470-3-B02

Matrix: SOLID

Collection Date: 11/07/2013 11:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.024	mg/L	1	11/19/2013 12:35	93845
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.16	0.5	X	1.03	mg/L	100	11/15/2013 14:40	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110454

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110454-002

Client Sample ID: 2470-3-B03

Matrix: SOLID

Collection Date: 11/07/2013 11:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.111	mg/L	1	11/19/2013 12:39	93845
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005	X	0.426	mg/L	1	11/15/2013 13:50	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110454

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110454-003

Client Sample ID: 2470-3-B04

Matrix: SOLID

Collection Date: 11/07/2013 11:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0184	mg/L	1	11/19/2013 13:05	93845
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005	X	0.271	mg/L	1	11/15/2013 13:54	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110454

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110454-004

Client Sample ID: 2470-3-B05

Matrix: SOLID

Collection Date: 11/07/2013 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0396	mg/L	1	11/19/2013 13:09	93845
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005	X	0.185	mg/L	1	11/15/2013 13:58	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110454

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110454-005

Client Sample ID: 2470-3-B06

Matrix: SOLID

Collection Date: 11/07/2013 10:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.144	mg/L	1	11/15/2013 14:01	93726



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110454

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110454-006

Client Sample ID: 2470-3-B07

Matrix: SOLID

Collection Date: 11/07/2013 10:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0602	mg/L	1	11/15/2013 11:36	93732



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110454

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110454-007

Client Sample ID: 2470-3-B07 Dup

Matrix: SOLID

Collection Date: 11/07/2013 10:48

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0194	mg/L	1	11/19/2013 13:13	93845
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005	X	0.171	mg/L	1	11/15/2013 11:39	93732



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110454

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110454-008

Client Sample ID: 2470-3-B08

Matrix: SOLID

Collection Date: 11/07/2013 10:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0885	mg/L	1	11/15/2013 11:43	93732



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110454

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110454-009

Client Sample ID: 2470-3-B09

Matrix: SOLID

Collection Date: 11/07/2013 10:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.063	mg/L	1	11/15/2013 11:47	93732



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110454

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110454-010

Client Sample ID: 2470-3-B10

Matrix: SOLID

Collection Date: 11/07/2013 10:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.086	mg/L	1	11/15/2013 11:50	93732



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110454

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110454-011

Client Sample ID: 2470-3-B11

Matrix: SOLID

Collection Date: 11/07/2013 9:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0757	mg/L	1	11/15/2013 11:54	93732



CHAIN OF CUSTODY RECORD

1071

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: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	Project Name: <u>Liebert, Kane Co.</u> Project No.: <u>IDOT 2011-055</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>CRM</u>	COC No.: <u>5</u> of <u>6</u> Lab Job No.: <u>13110454</u> Sample Temp.: <u>52.00</u>														
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter. * SAMPLE CONTAINER WAS EMPTY UPON RECEIVAL 7/11/13 11:13																	
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	SPLP Mn/** TCLP Mn	Comments
13110454 001	2470-3-B01*	11/7	11:25	S											X		0-4
002	2470-3-B02		11:20														0-4
003	2470-3-B03		11:10														0-4
004	2470-3-B04		11:05														0-5
005	2470-3-B05		11:00														0-5
006	2470-3-B06		10:53														0-5
007	2470-3-B07		10:45														0-5
008	2470-3-B07 DUP		10:49														0-5
009	2470-3-B08		10:25														0-4
010	2470-3-B09		10:15														0-4
011	2470-3-B10		10:10														0-4
012	2470-3-B11		9:55	S											X		0-4
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>											
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>											
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>											

TekLab, Inc
 Courier Pickup



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 341 (IL 72) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
40W478 Big Timber Road

City: Gilberts State: IL Zip Code: 60136

County: Kane Township: Rutland

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

Latitude: 42.09913 Longitude: -88.40305
(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: _____

Zip Code: 60196-1096 Phone: _____

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 341 (IL 72)

Latitude: 42.09913 Longitude: -88.40305

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 2470-4-B01 & -B02 were sampled adjacent to ISGS site No. 2470V-5. See Figure 5 and Tables 5e and 7 of the revised preliminary site investigation report for sampling details.

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

TestAmerica analytical report - TestAmerica job ID: 500-52473-1 & Teklab, Inc. Environmental Laboratory Work Order: 13110455

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

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

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

Company Name: Illinois Department of Transportation, Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: (217)-785-7525

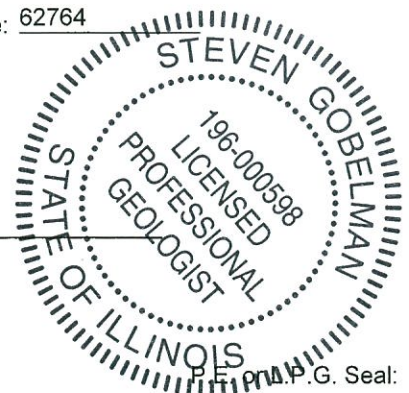
Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

2/19/14

Date:



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

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

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

- Only parameters reported at concentrations above the most stringent MAC are listed.
- 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 2470V-5

Farmstead

Sample ID	2470-4-B01	2470-4-B02	¹ Most Stringent MAC	² Outside a Populated Area MAC	³ Populated non-Metropolitan Statistical Area MAC	⁴ Within Chicago Corporate Limits MAC	⁵ Metropolitan Statistical Area MAC	⁶ Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4	0-4						
Sample Date	11/15/2012	11/15/2012						
PID	0	0						
Sample pH	7.85	7.96						
Matrix	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: 500-52473-1
Client Project/Site: IDOT - IL 72 - Kane Co. - WO 055

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

Attn: Mike Nelson



Authorized for release by:
12/11/2012 3:38:49 PM

Richard Wright
Project Manager II
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
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-4-B02

Lab Sample ID: 500-52473-25

Date Collected: 11/15/12 11:15

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0070		0.0070	0.0030	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Benzene	<0.0070		0.0070	0.00096	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Bromodichloromethane	<0.0070		0.0070	0.0012	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Bromoform	<0.0070		0.0070	0.0016	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Bromomethane	<0.0070		0.0070	0.0021	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
2-Butanone (MEK)	<0.0070		0.0070	0.0025	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Carbon disulfide	<0.0070		0.0070	0.0010	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Carbon tetrachloride	<0.0070		0.0070	0.0013	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Chlorobenzene	<0.0070		0.0070	0.00071	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Chloroethane	<0.0070		0.0070	0.0019	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Chloroform	<0.0070		0.0070	0.00081	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Chloromethane	<0.0070		0.0070	0.0015	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
cis-1,2-Dichloroethene	<0.0070		0.0070	0.00099	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
cis-1,3-Dichloropropene	<0.0070		0.0070	0.00092	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Dibromochloromethane	<0.0070		0.0070	0.0012	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
1,1-Dichloroethane	<0.0070		0.0070	0.0011	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
1,2-Dichloroethane	<0.0070		0.0070	0.0010	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
1,1-Dichloroethene	<0.0070		0.0070	0.0011	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
1,2-Dichloropropane	<0.0070		0.0070	0.0011	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
1,3-Dichloropropene, Total	<0.0070		0.0070	0.00092	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Ethylbenzene	<0.0070		0.0070	0.0014	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
2-Hexanone	<0.0070		0.0070	0.0020	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Methylene Chloride	<0.0070		0.0070	0.0019	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
4-Methyl-2-pentanone (MIBK)	<0.0070		0.0070	0.0018	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Methyl tert-butyl ether	<0.0070		0.0070	0.0012	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Styrene	<0.0070		0.0070	0.00092	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
1,1,1,2-Tetrachloroethane	<0.0070		0.0070	0.0014	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Tetrachloroethene	<0.0070		0.0070	0.0011	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Toluene	<0.0070		0.0070	0.00098	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
trans-1,2-Dichloroethene	<0.0070		0.0070	0.00096	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
trans-1,3-Dichloropropene	<0.0070		0.0070	0.0013	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
1,1,1-Trichloroethane	<0.0070		0.0070	0.0010	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
1,1,2-Trichloroethane	<0.0070		0.0070	0.00096	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Trichloroethene	<0.0070		0.0070	0.0012	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Vinyl chloride	<0.0070		0.0070	0.0015	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1
Xylenes, Total	<0.014		0.014	0.00063	mg/Kg	*	11/15/12 11:15	11/21/12 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		76 - 120	11/15/12 11:15	11/21/12 05:51	1
Dibromofluoromethane	102		73 - 122	11/15/12 11:15	11/21/12 05:51	1
1,2-Dichloroethane-d4 (Surr)	86		74 - 123	11/15/12 11:15	11/21/12 05:51	1
Toluene-d8 (Surr)	101		72 - 122	11/15/12 11:15	11/21/12 05:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	*	11/28/12 17:09	12/08/12 20:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	*	11/28/12 17:09	12/08/12 20:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	*	11/28/12 17:09	12/08/12 20:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	*	11/28/12 17:09	12/08/12 20:05	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	*	11/28/12 17:09	12/08/12 20:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-4-B02

Lab Sample ID: 500-52473-25

Date Collected: 11/15/12 11:15

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Fluoranthene	0.019	J	0.039	0.016	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Pyrene	0.019	J	0.039	0.014	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Benzo[a]anthracene	0.016	J	0.039	0.0082	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Chrysene	0.017	J	0.039	0.0088	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-4-B02

Lab Sample ID: 500-52473-25

Date Collected: 11/15/12 11:15

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Benzo[b]fluoranthene	0.018	J	0.039	0.0076	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Benzo[a]pyrene	0.017	J	0.039	0.0071	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/28/12 17:09	12/08/12 20:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		30 - 110				11/28/12 17:09	12/08/12 20:05	1
Phenol-d5	66		31 - 110				11/28/12 17:09	12/08/12 20:05	1
Nitrobenzene-d5	65		30 - 115				11/28/12 17:09	12/08/12 20:05	1
2-Fluorobiphenyl	67		30 - 119				11/28/12 17:09	12/08/12 20:05	1
2,4,6-Tribromophenol	73		35 - 137				11/28/12 17:09	12/08/12 20:05	1
Terphenyl-d14	73		36 - 134				11/28/12 17:09	12/08/12 20:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Arsenic	5.9		0.59	0.13	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Barium	51		0.59	0.070	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Beryllium	0.50		0.24	0.017	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Boron	2.3	J	2.9	0.55	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Cadmium	0.048	J	0.12	0.029	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Calcium	2100	B	12	2.1	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Chromium	12		0.59	0.099	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Cobalt	3.5		0.29	0.031	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Copper	9.8		0.59	0.16	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Iron	14000		12	5.1	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Lead	6.3		0.29	0.10	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Magnesium	2300	B	5.9	1.1	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Manganese	220		0.59	0.083	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Nickel	14		0.59	0.13	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Potassium	670		29	3.3	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Selenium	0.26	J	0.59	0.17	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Sodium	1700		59	11	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Vanadium	21		0.29	0.045	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1
Zinc	41		1.2	0.40	mg/Kg	☼	11/20/12 09:40	11/28/12 22:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.89		0.50	0.010	mg/L		11/28/12 15:30	11/30/12 13:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/30/12 13:21	1
Boron	0.074	J	0.50	0.050	mg/L		11/28/12 15:30	11/30/12 13:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/30/12 13:21	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-4-B02

Lab Sample ID: 500-52473-25

Date Collected: 11/15/12 11:15

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:21	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 13:21	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:21	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/30/12 13:21	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/30/12 13:21	1
Manganese	0.41		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:21	1
Nickel	0.015	J	0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:21	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/30/12 13:21	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 13:21	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/30/12 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 18:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 18:05	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J B	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 11:35	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.019	0.0074	mg/Kg	☼	12/03/12 16:00	12/04/12 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.96		0.200	0.200	SU			11/20/12 10:16	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-4-B01

Lab Sample ID: 500-52473-26

Date Collected: 11/15/12 11:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0021	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Carbon disulfide	<0.0050		0.0050	0.00074	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Carbon tetrachloride	<0.0050		0.0050	0.00090	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Chlorobenzene	<0.0050		0.0050	0.00050	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Chloroethane	<0.0050		0.0050	0.0013	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Dibromochloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
1,1-Dichloroethane	<0.0050		0.0050	0.00078	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
1,2-Dichloroethane	<0.0050		0.0050	0.00073	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
1,2-Dichloropropane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Toluene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00068	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	11/15/12 11:25	11/21/12 06:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		76 - 120	11/15/12 11:25	11/21/12 06:14	1
Dibromofluoromethane	110		73 - 122	11/15/12 11:25	11/21/12 06:14	1
1,2-Dichloroethane-d4 (Surr)	95		74 - 123	11/15/12 11:25	11/21/12 06:14	1
Toluene-d8 (Surr)	103		72 - 122	11/15/12 11:25	11/21/12 06:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-4-B01

Lab Sample ID: 500-52473-26

Date Collected: 11/15/12 11:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Naphthalene	0.0077	J	0.039	0.0076	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Phenanthrene	0.021	J	0.039	0.016	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Fluoranthene	0.056		0.039	0.016	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Pyrene	0.047		0.039	0.014	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Benzo[a]anthracene	0.023	J	0.039	0.0082	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Chrysene	0.029	J	0.039	0.0089	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-4-B01

Lab Sample ID: 500-52473-26

Date Collected: 11/15/12 11:25

Matrix: Solid

Date Received: 11/16/12 15:00

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Benzo[b]fluoranthene	0.035	J	0.039	0.0076	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Benzo[k]fluoranthene	0.017	J	0.039	0.0094	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Benzo[a]pyrene	0.025	J	0.039	0.0071	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.039	0.013	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Benzo[g,h,i]perylene	0.019	J	0.039	0.013	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/28/12 17:09	12/08/12 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		30 - 110				11/28/12 17:09	12/08/12 20:22	1
Phenol-d5	56		31 - 110				11/28/12 17:09	12/08/12 20:22	1
Nitrobenzene-d5	54		30 - 115				11/28/12 17:09	12/08/12 20:22	1
2-Fluorobiphenyl	54		30 - 119				11/28/12 17:09	12/08/12 20:22	1
2,4,6-Tribromophenol	57		35 - 137				11/28/12 17:09	12/08/12 20:22	1
Terphenyl-d14	60		36 - 134				11/28/12 17:09	12/08/12 20:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Arsenic	6.4		0.62	0.13	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Barium	55		0.62	0.074	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Beryllium	0.55		0.25	0.018	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Boron	1.7	J	3.1	0.58	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Cadmium	0.070	J	0.12	0.031	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Calcium	1800	B	12	2.2	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Chromium	17		0.62	0.10	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Cobalt	7.2		0.31	0.033	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Copper	14		0.62	0.17	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Iron	16000		12	5.4	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Lead	11		0.31	0.11	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Magnesium	2700	B	6.2	1.2	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Manganese	460		0.62	0.087	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Nickel	28		0.62	0.14	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Potassium	690		31	3.5	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Selenium	0.53	J	0.62	0.18	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Sodium	240		62	11	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Thallium	<0.62		0.62	0.16	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Vanadium	24		0.31	0.047	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1
Zinc	53		1.2	0.42	mg/Kg	☼	11/20/12 09:40	11/28/12 22:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.34	J	0.50	0.010	mg/L		11/28/12 15:30	11/30/12 13:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/28/12 15:30	11/30/12 13:27	1
Boron	0.097	J	0.50	0.050	mg/L		11/28/12 15:30	11/30/12 13:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/28/12 15:30	11/30/12 13:27	1

TestAmerica Chicago

Client Sample Results

Client: Andrews Engineering Inc.
 Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Client Sample ID: 2470-4-B01

Lab Sample ID: 500-52473-26

Date Collected: 11/15/12 11:25

Matrix: Solid

Date Received: 11/16/12 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:27	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 13:27	1
Copper	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:27	1
Iron	<0.20		0.20	0.20	mg/L		11/28/12 15:30	11/30/12 13:27	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/28/12 15:30	11/30/12 13:27	1
Manganese	0.020	J	0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:27	1
Nickel	<0.025		0.025	0.010	mg/L		11/28/12 15:30	11/30/12 13:27	1
Selenium	<0.050		0.050	0.010	mg/L		11/28/12 15:30	11/30/12 13:27	1
Silver	<0.025		0.025	0.0050	mg/L		11/28/12 15:30	11/30/12 13:27	1
Zinc	<0.10		0.10	0.020	mg/L		11/28/12 15:30	11/30/12 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		11/28/12 15:30	12/04/12 18:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/28/12 15:30	12/04/12 18:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.000020	mg/L		12/03/12 15:00	12/04/12 11:37	1

Method: 7471A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.020	0.0075	mg/Kg	☼	12/03/12 16:00	12/04/12 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.85		0.200	0.200	SU			11/20/12 10:20	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 72 - Kane Co. - WO 055

TestAmerica Job ID: 500-52473-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

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



CHAIN OF CUSTODY RECORD

500-52473

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>IL72</u> Project No.: <u>IDOT2011-055</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>SS / CM</u>	COC No.: <u>3 of 6</u> Lab Job No.: Sample Temp:
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Special Instructions:
See Table 2 for complete parameter lists and reporting limit requirements.
*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

ANALYSES											
VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals Inorg	pH	% Solids	Waste Characterization	

Matrix Key:
W - Water
S - Soil
SL - Sludge
SE - Sediment
L - Leachate
DW - Drinking Water
OL - Oil
O - Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals Inorg	pH	% Solids	Waste Characterization	Comments
25	2470-4-B02	11/15	11:15	S	✓	✓					✓	✓	✓	✓		0-4'
26	2470-4-B01		11:25		✓	✓					✓	✓	✓	✓		0-4'
27	2470-3-B10		11:30		✓	✓					✓	✓	✓	✓		0-4'
28	2470-3-B11		11:40		✓	✓					✓	✓	✓	✓		0-4'
29	2470-3-B09		12:20		✓	✓					✓	✓	✓	✓		0-4'
30	2470-3-B08		12:30		✓	✓					✓	✓	✓	✓		0-4'
31	2470-2-B08-1		12:40		✓	✓					✓	✓	✓	✓		0-5'
32	2470-2-B08-2		12:45		✓	✓					✓	✓	✓	✓		5-10'
33	2470-2-B08-3		12:50		✓	✓					✓	✓	✓	✓		10-15'
34	2470-2-B07-1		1:05		✓	✓					✓	✓	✓	✓		0-5'
35	2470-2-B07-2		1:10	S	✓	✓					✓	✓	✓	✓		5-10'
36	TRIP BLANK	11/15	-	W	✓	✓			✓		✓	✓	✓	✓		-

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/16/12 1:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/16/12 1:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/16/12 1:50</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/16/12 1:50</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:

November 19, 2013

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



RE: IDOT2011-055

WorkOrder: 13110455

Dear Colleen Grey:

TEKLAB, INC received 2 samples on 11/8/2013 3:05:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,



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



Report Contents

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

Client: Andrews Engineering, Inc.

Work Order: 13110455

Client Project: IDOT2011-055

Report Date: 19-Nov-13

This reporting package includes the following:

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

Client: Andrews Engineering, Inc.

Work Order: 13110455

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Abbr Definition

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

Qualifiers

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



Case Narrative

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

Client: Andrews Engineering, Inc.

Work Order: 13110455

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Cooler Receipt Temp: 5.2 °C

Locations and Accreditations

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

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



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110455

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110455-001

Client Sample ID: 2470-4-B01

Matrix: SOLID

Collection Date: 11/07/2013 9:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		0.0791	mg/L	1	11/14/2013 14:10	93694



Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13110455

Client Project: IDOT2011-055

Report Date: 19-Nov-13

Lab ID: 13110455-002

Client Sample ID: 2470-4-B02

Matrix: SOLID

Collection Date: 11/07/2013 9:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP									
Manganese	NELAP	0.0016	0.005		1.32	mg/L	1	11/18/2013 17:40	93791
SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP									
Manganese	NELAP	0.016	0.05		0.537	mg/L	10	11/14/2013 14:37	93694

