Illinois Environmental Protection Agency

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 348 (IL 43) Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
4200-4800 Block of South Harlem Avenue

City: Lyons State: IL Zip Code: 60534 & 60402

County: Cook Township: Lyons

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

Latitude: 41.80850 (Decimal Degrees) Longitude: -87.80229 (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☒ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: Il	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847.705.4101	Zip Code:	60196-1096 Phone: 847.705.4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 348 (IL 43)

Latitude: 41.80850 Longitude: -87.80229

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 2181-2-B01, -B02, -B03, -B04, -B05, -B07, -B09, -B12, -B13, B14, AND -B15 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2181-2. SEE FIGURES 2 & 3, AND TABLE 3a OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBERS: 500-57045-4 AND 500-57144-3

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:

12/24/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
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 2181-2

Cook County Forest Preserve

Sample ID	2181-2-B01-1	2181-2-B01-1 DUP	2181-2-B01-2	2181-2-B02-1	2181-2-B02-2	2181-2-B03-1	[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	0-5	5-10	0-5	5-10	0-5						
Sample Date	5/15/2013	5/15/2013	5/15/2013	5/15/2013	5/15/2013	5/15/2013						
PID	0	0	0	0	0	0						
Sample pH	7.91	8.18	7.45	7.81	7.73	8.41						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						
Inorganic Compounds, Total (mg/kg)												
Arsenic	**3.9**	**8.2**	**9.9**	**5.7**	**6.2**	**1.6**	11.3	NA	11.3	NA	13	NA

Sample ID	2181-2-B03-2	2181-2-B04-1	2181-2-B04-2	2181-2-B05-1	2181-2-B05-2	2181-2-B07-1	[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)	5-10	0-5	5-10	0-5	5-10	0-5						
Sample Date	5/15/2013	5/15/2013	5/15/2013	5/15/2013	5/15/2013	5/16/2013						
PID	0	0	0	0	0	0						
Sample pH	7.51	8.15	7.59	8.12	7.75	7.72						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						
Inorganic Compounds, Total (mg/kg)												
Arsenic	**8.2**	**3**	**4.4**	**2.9**	**5.4**	**4.5**	11.3	NA	11.3	NA	13	NA

Sample ID	2181-2-B07-2	2181-2-B09-1	2181-2-B09-2	2181-2-B12-1	2181-2-B12-2	2181-2-B13-1	[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)	5-10	0-5	5-10	0-5	5-10	0-5						
Sample Date	5/16/2013	5/16/2013	5/16/2013	5/16/2013	5/16/2013	5/16/2013						
PID	0	0	0	0	0	0						
Sample pH	7.01	8.16	7.14	8.09	7.17	6.89						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						
Inorganic Compounds, Total (mg/kg)												
Arsenic	**3.5**	**3.2**	**4.3**	**1.7**	**2.4**	**5.5**	11.3	NA	11.3	NA	13	NA

Sample ID	2181-2-B13-2	2181-2-B14-1	2181-2-B14-2	2181-2-B14-2 DUP	2181-2-B15-1	2181-2-B15-2	[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	5-10	0-5	5-10	5-10	0-5	5-10						
Sample Date	5/16/2013	5/16/2013	5/16/2013	5/16/2013	5/16/2013	5/16/2013						
PID	0	0	0	0	0	0						
Sample pH	7.89	7.53	7.89	7.83	7.16	7.9						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						
Inorganic Compounds, Total (mg/kg)												
Arsenic	**4.7**	**12** **1,3**	**2.2**	**7.3**	**4.4**	**6.1**	11.3	NA	11.3	NA	13	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-57144-3
Client Project/Site: IDOT - IL 43 - WO 006

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

Attn: Mike Nelson

Authorized for release by:
6/6/2013 9:03:00 AM

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

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B09-1
Date Collected: 05/16/13 12:05
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-5
Matrix: Solid
Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0057		0.0057	0.0024	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Benzene	<0.0057		0.0057	0.00078	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Bromodichloromethane	<0.0057		0.0057	0.00097	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Bromoform	<0.0057		0.0057	0.0013	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Bromomethane	<0.0057	*	0.0057	0.0017	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
2-Butanone (MEK)	<0.0057		0.0057	0.0020	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Carbon disulfide	<0.0057		0.0057	0.00085	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Carbon tetrachloride	<0.0057		0.0057	0.0010	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Chlorobenzene	<0.0057		0.0057	0.00057	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Chloroethane	<0.0057		0.0057	0.0015	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Chloroform	<0.0057		0.0057	0.00065	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Chloromethane	<0.0057		0.0057	0.0012	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.00080	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.00074	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Dibromochloromethane	<0.0057		0.0057	0.00098	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
1,1-Dichloroethane	<0.0057		0.0057	0.00089	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
1,2-Dichloroethane	<0.0057		0.0057	0.00084	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
1,1-Dichloroethene	<0.0057		0.0057	0.00091	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
1,2-Dichloropropane	<0.0057		0.0057	0.00086	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
1,3-Dichloropropene, Total	<0.0057		0.0057	0.00074	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Ethylbenzene	<0.0057		0.0057	0.0011	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
2-Hexanone	<0.0057		0.0057	0.0016	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Methylene Chloride	<0.0057		0.0057	0.0015	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0015	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Methyl tert-butyl ether	<0.0057		0.0057	0.00093	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Styrene	<0.0057		0.0057	0.00074	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
1,1,2,2-Tetrachloroethane	<0.0057		0.0057	0.0011	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Tetrachloroethene	<0.0057		0.0057	0.00086	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Toluene	<0.0057		0.0057	0.00079	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.00078	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.0010	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.00085	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.00077	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Trichloroethene	<0.0057		0.0057	0.00093	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Vinyl acetate	<0.0057		0.0057	0.00089	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Vinyl chloride	<0.0057		0.0057	0.0012	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1
Xylenes, Total	<0.011		0.011	0.00051	mg/Kg	☼	05/16/13 12:05	05/20/13 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 122*	*05/16/13 12:05*	*05/20/13 17:10*	*1*
Dibromofluoromethane	*95*		*75 - 120*	*05/16/13 12:05*	*05/20/13 17:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*	*05/16/13 12:05*	*05/20/13 17:10*	*1*
Toluene-d8 (Surr)	*100*		*75 - 122*	*05/16/13 12:05*	*05/20/13 17:10*	*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	☼	05/20/13 17:21	06/04/13 18:17	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B09-1
Date Collected: 05/16/13 12:05
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-5
Matrix: Solid
Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
2-Methylphenol	<0.21		0.21	0.054	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
4-Chloroaniline	<0.83		0.83	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Acenaphthylene	<0.041		0.041	0.0094	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
2,4-Dinitrotoluene	<0.21	*	0.21	0.063	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Diethyl phthalate	<0.21	*	0.21	0.068	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
N-Nitrosodiphenylamine	<0.21		0.21	0.055	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Phenanthrene	**0.027**	**J**	0.041	0.017	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Anthracene	**0.023**	**J**	0.041	0.0096	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Fluoranthene	**0.048**		0.041	0.017	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Pyrene	**0.047**		0.041	0.015	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Benzo[a]anthracene	**0.027**	**J**	0.041	0.0086	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B09-1
Date Collected: 05/16/13 12:05
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-5
Matrix: Solid
Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.024**	**J**	0.041	0.0093	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Benzo[b]fluoranthene	**0.044**		0.041	0.0080	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Benzo[k]fluoranthene	**0.021**	**J**	0.041	0.0098	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Benzo[a]pyrene	**0.030**	**J**	0.041	0.0075	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Indeno[1,2,3-cd]pyrene	**0.023**	**J**	0.041	0.014	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
Benzo[g,h,i]perylene	**0.031**	**J**	0.041	0.014	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	05/20/13 17:21	06/04/13 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*34*		*30 - 110*	*05/20/13 17:21*	*06/04/13 18:17*	*1*
Phenol-d5	*37*		*31 - 110*	*05/20/13 17:21*	*06/04/13 18:17*	*1*
Nitrobenzene-d5	*31*		*30 - 115*	*05/20/13 17:21*	*06/04/13 18:17*	*1*
2-Fluorobiphenyl	*35*		*30 - 119*	*05/20/13 17:21*	*06/04/13 18:17*	*1*
2,4,6-Tribromophenol	*63*		*35 - 137*	*05/20/13 17:21*	*06/04/13 18:17*	*1*
Terphenyl-d14	*61*		*36 - 134*	*05/20/13 17:21*	*06/04/13 18:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Arsenic	**3.2**		0.60	0.12	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Barium	**66**	**B**	0.60	0.064	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Beryllium	**0.61**		0.24	0.021	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Boron	**6.3**	**B**	3.0	0.13	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Cadmium	**0.38**		0.12	0.015	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Calcium	**14000**	**B**	12	3.3	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Chromium	**15**		0.60	0.070	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Cobalt	**6.9**		0.30	0.021	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Copper	**22**	**B**	0.60	0.053	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Iron	**14000**		12	4.9	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Lead	**99**	**B**	0.30	0.090	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Magnesium	**9100**	**B**	6.0	1.2	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Manganese	**140**		0.60	0.033	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Nickel	**16**		0.60	0.059	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Potassium	**1000**		30	1.8	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Selenium	**0.22**	**J**	0.60	0.21	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Sodium	**1100**		60	8.1	mg/Kg	☼	05/17/13 14:00	05/26/13 03:58	1
Thallium	<0.60		0.60	0.25	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Vanadium	**19**		0.30	0.045	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1
Zinc	**67**	**B**	1.2	0.24	mg/Kg	☼	05/17/13 14:00	05/25/13 04:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/31/13 08:10	06/01/13 03:42	1
Lead	**0.069**		0.0075	0.0050	mg/L		05/31/13 08:10	06/01/13 03:42	1
Manganese	**1.7**		0.025	0.010	mg/L		05/31/13 08:10	06/01/13 03:42	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B09-1
Date Collected: 05/16/13 12:05
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.35	J	0.50	0.010	mg/L		05/21/13 08:20	05/26/13 01:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/21/13 08:20	05/26/13 01:20	1
Boron	0.81		0.10	0.050	mg/L		05/21/13 08:20	05/26/13 01:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:20	05/26/13 01:20	1
Chromium	0.086		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 01:20	1
Cobalt	0.033		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 01:20	1
Iron	120	B	0.20	0.20	mg/L		05/21/13 08:20	05/26/13 01:20	1
Lead	0.27		0.0075	0.0050	mg/L		05/21/13 08:20	05/26/13 01:20	1
Manganese	0.32		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 01:20	1
Nickel	0.065		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 01:20	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:20	05/26/13 01:20	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 01:20	1
Zinc	0.25		0.10	0.020	mg/L		05/21/13 08:20	05/26/13 01:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:20	05/28/13 17:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:20	05/28/13 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00032		0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.019	0.0091	mg/Kg	☼	05/20/13 15:20	05/21/13 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.16		0.200	0.200	SU			05/23/13 17:14	1

Client Sample ID: 2181-2-B09-2
Date Collected: 05/16/13 12:10
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-6
Matrix: Solid
Percent Solids: 68.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0074		0.0074	0.0032	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Benzene	<0.0074		0.0074	0.0010	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Bromodichloromethane	<0.0074		0.0074	0.0013	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Bromoform	<0.0074		0.0074	0.0017	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Bromomethane	<0.0074	*	0.0074	0.0022	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
2-Butanone (MEK)	<0.0074		0.0074	0.0027	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Carbon disulfide	<0.0074		0.0074	0.0011	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Carbon tetrachloride	<0.0074		0.0074	0.0014	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Chlorobenzene	<0.0074		0.0074	0.00075	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Chloroethane	<0.0074		0.0074	0.0020	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Chloroform	<0.0074		0.0074	0.00085	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Chloromethane	<0.0074		0.0074	0.0016	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
cis-1,2-Dichloroethene	<0.0074		0.0074	0.0011	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
cis-1,3-Dichloropropene	<0.0074		0.0074	0.00098	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Dibromochloromethane	<0.0074		0.0074	0.0013	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
1,1-Dichloroethane	<0.0074		0.0074	0.0012	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
1,2-Dichloroethane	<0.0074		0.0074	0.0011	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
1,1-Dichloroethene	<0.0074		0.0074	0.0012	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
1,2-Dichloropropane	<0.0074		0.0074	0.0011	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
1,3-Dichloropropene, Total	<0.0074		0.0074	0.00098	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Ethylbenzene	<0.0074		0.0074	0.0015	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
2-Hexanone	<0.0074		0.0074	0.0021	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Methylene Chloride	<0.0074		0.0074	0.0020	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
4-Methyl-2-pentanone (MIBK)	<0.0074		0.0074	0.0019	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Methyl tert-butyl ether	<0.0074		0.0074	0.0012	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Styrene	<0.0074		0.0074	0.00098	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
1,1,2,2-Tetrachloroethane	<0.0074		0.0074	0.0015	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Tetrachloroethene	<0.0074		0.0074	0.0011	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Toluene	<0.0074		0.0074	0.0010	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
trans-1,2-Dichloroethene	<0.0074		0.0074	0.0010	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
trans-1,3-Dichloropropene	<0.0074		0.0074	0.0013	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
1,1,1-Trichloroethane	<0.0074		0.0074	0.0011	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
1,1,2-Trichloroethane	<0.0074		0.0074	0.0010	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Trichloroethene	<0.0074		0.0074	0.0012	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Vinyl acetate	<0.0074		0.0074	0.0012	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Vinyl chloride	<0.0074		0.0074	0.0016	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1
Xylenes, Total	<0.015		0.015	0.00067	mg/Kg	☼	05/16/13 12:10	05/20/13 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*	*05/16/13 12:10*	*05/20/13 17:33*	*1*
Dibromofluoromethane	*99*		*75 - 120*	*05/16/13 12:10*	*05/20/13 17:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*05/16/13 12:10*	*05/20/13 17:33*	*1*
Toluene-d8 (Surr)	*100*		*75 - 122*	*05/16/13 12:10*	*05/20/13 17:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.24		0.24	0.075	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Bis(2-chloroethyl)ether	<0.24		0.24	0.070	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
1,3-Dichlorobenzene	<0.24		0.24	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
1,4-Dichlorobenzene	<0.24		0.24	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B09-2
Date Collected: 05/16/13 12:10
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-6
Matrix: Solid
Percent Solids: 68.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.24		0.24	0.052	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
2-Methylphenol	<0.24		0.24	0.063	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
2,2'-oxybis[1-chloropropane]	<0.24		0.24	0.053	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
N-Nitrosodi-n-propylamine	<0.24		0.24	0.060	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Hexachloroethane	<0.24		0.24	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
2-Chlorophenol	<0.24		0.24	0.068	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Nitrobenzene	<0.047		0.047	0.015	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Bis(2-chloroethoxy)methane	<0.24		0.24	0.052	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
1,2,4-Trichlorobenzene	<0.24		0.24	0.054	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Isophorone	<0.24		0.24	0.053	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
2,4-Dimethylphenol	<0.47		0.47	0.15	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Hexachlorobutadiene	<0.24		0.24	0.062	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Naphthalene	<0.047		0.047	0.0092	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
2,4-Dichlorophenol	<0.47		0.47	0.14	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
4-Chloroaniline	<0.96		0.96	0.14	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
2,4,6-Trichlorophenol	<0.47		0.47	0.060	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
2,4,5-Trichlorophenol	<0.47		0.47	0.14	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Hexachlorocyclopentadiene	<0.96		0.96	0.22	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
2-Methylnaphthalene	<0.24		0.24	0.062	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
2-Nitroaniline	<0.24		0.24	0.086	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
2-Chloronaphthalene	<0.24		0.24	0.053	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
4-Chloro-3-methylphenol	<0.47		0.47	0.23	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
2,6-Dinitrotoluene	<0.24		0.24	0.056	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
2-Nitrophenol	<0.47		0.47	0.074	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
3-Nitroaniline	<0.47		0.47	0.092	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Dimethyl phthalate	<0.24		0.24	0.059	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
2,4-Dinitrophenol	<0.96		0.96	0.24	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Acenaphthylene	<0.047		0.047	0.011	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
2,4-Dinitrotoluene	<0.24	*	0.24	0.073	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Acenaphthene	<0.047		0.047	0.014	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Dibenzofuran	<0.24		0.24	0.057	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
4-Nitrophenol	<0.96		0.96	0.26	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Fluorene	<0.047		0.047	0.011	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
4-Nitroaniline	<0.47		0.47	0.097	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
4-Bromophenyl phenyl ether	<0.24		0.24	0.053	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Hexachlorobenzene	<0.096		0.096	0.0094	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Diethyl phthalate	<0.24	*	0.24	0.079	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
4-Chlorophenyl phenyl ether	<0.24		0.24	0.075	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Pentachlorophenol	<0.96		0.96	0.24	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
N-Nitrosodiphenylamine	<0.24		0.24	0.064	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
4,6-Dinitro-2-methylphenol	<0.47		0.47	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Phenanthrene	<0.047		0.047	0.020	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Anthracene	<0.047		0.047	0.011	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Carbazole	<0.24		0.24	0.067	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Di-n-butyl phthalate	<0.24		0.24	0.060	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Fluoranthene	<0.047		0.047	0.019	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Pyrene	<0.047		0.047	0.017	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Butyl benzyl phthalate	<0.24		0.24	0.059	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Benzo[a]anthracene	<0.047		0.047	0.010	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B09-2
Date Collected: 05/16/13 12:10
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-6
Matrix: Solid
Percent Solids: 68.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.047		0.047	0.011	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
3,3'-Dichlorobenzidine	<0.24		0.24	0.040	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Bis(2-ethylhexyl) phthalate	<0.24		0.24	0.063	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Di-n-octyl phthalate	<0.24		0.24	0.096	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Benzo[b]fluoranthene	**0.013**	**J**	0.047	0.0092	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Benzo[k]fluoranthene	<0.047		0.047	0.011	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Benzo[a]pyrene	**0.010**	**J**	0.047	0.0087	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Indeno[1,2,3-cd]pyrene	<0.047		0.047	0.016	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Dibenz(a,h)anthracene	<0.047		0.047	0.013	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
Benzo[g,h,i]perylene	<0.047		0.047	0.016	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1
3 & 4 Methylphenol	<0.24		0.24	0.090	mg/Kg	☼	05/20/13 17:21	06/04/13 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*36*		*30 - 110*	*05/20/13 17:21*	*06/04/13 18:36*	*1*
Phenol-d5	*37*		*31 - 110*	*05/20/13 17:21*	*06/04/13 18:36*	*1*
Nitrobenzene-d5	*33*		*30 - 115*	*05/20/13 17:21*	*06/04/13 18:36*	*1*
2-Fluorobiphenyl	*36*		*30 - 119*	*05/20/13 17:21*	*06/04/13 18:36*	*1*
2,4,6-Tribromophenol	*58*		*35 - 137*	*05/20/13 17:21*	*06/04/13 18:36*	*1*
Terphenyl-d14	*52*		*36 - 134*	*05/20/13 17:21*	*06/04/13 18:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.4		1.4	0.55	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Arsenic	**4.3**		0.68	0.14	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Barium	**74**	**B**	0.68	0.073	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Beryllium	**0.92**		0.27	0.024	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Boron	**7.7**	**B**	3.4	0.14	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Cadmium	<0.14		0.14	0.017	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Calcium	**30000**	**B**	14	3.7	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Chromium	**20**		0.68	0.079	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Cobalt	**13**		0.34	0.024	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Copper	**24**	**B**	0.68	0.060	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Iron	**38000**		14	5.6	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Lead	**20**	**B**	0.34	0.10	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Magnesium	**21000**	**B**	6.8	1.4	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Manganese	**180**		0.68	0.037	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Nickel	**28**		0.68	0.067	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Potassium	**1600**		34	2.0	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Selenium	<0.68		0.68	0.24	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Silver	<0.34		0.34	0.025	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Sodium	**260**		68	9.1	mg/Kg	☼	05/17/13 14:00	05/26/13 04:02	1
Thallium	**0.38**	**J**	0.68	0.29	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Vanadium	**28**		0.34	0.050	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1
Zinc	**61**	**B**	1.4	0.27	mg/Kg	☼	05/17/13 14:00	05/25/13 05:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/31/13 08:10	06/01/13 03:48	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/31/13 08:10	06/01/13 03:48	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B09-2
Date Collected: 05/16/13 12:10
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.12	J	0.50	0.010	mg/L		05/21/13 08:20	05/26/13 01:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/21/13 08:20	05/26/13 01:26	1
Boron	0.95		0.10	0.050	mg/L		05/21/13 08:20	05/26/13 01:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:20	05/26/13 01:26	1
Chromium	0.040		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 01:26	1
Cobalt	0.017	J	0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 01:26	1
Iron	56	B	0.20	0.20	mg/L		05/21/13 08:20	05/26/13 01:26	1
Lead	0.036		0.0075	0.0050	mg/L		05/21/13 08:20	05/26/13 01:26	1
Manganese	0.13		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 01:26	1
Nickel	0.033		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 01:26	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:20	05/26/13 01:26	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 01:26	1
Zinc	0.091	J	0.10	0.020	mg/L		05/21/13 08:20	05/26/13 01:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:20	05/28/13 17:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:20	05/28/13 17:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J	0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.022	0.010	mg/Kg	☼	05/20/13 15:20	05/21/13 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.14		0.200	0.200	SU			05/23/13 17:34	1

Client Sample ID: 2181-2-B12-1
Date Collected: 05/16/13 11:25
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-13
Matrix: Solid
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0056		0.0056	0.0024	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Benzene	<0.0056		0.0056	0.00076	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Bromodichloromethane	<0.0056		0.0056	0.00096	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Bromoform	<0.0056		0.0056	0.0013	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Bromomethane	<0.0056	*	0.0056	0.0017	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
2-Butanone (MEK)	<0.0056		0.0056	0.0020	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Carbon disulfide	<0.0056		0.0056	0.00083	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Carbon tetrachloride	<0.0056		0.0056	0.0010	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Chlorobenzene	<0.0056		0.0056	0.00056	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Chloroethane	<0.0056		0.0056	0.0015	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Chloroform	<0.0056		0.0056	0.00064	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Chloromethane	<0.0056		0.0056	0.0012	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
cis-1,2-Dichloroethene	<0.0056		0.0056	0.00079	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
cis-1,3-Dichloropropene	<0.0056		0.0056	0.00073	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Dibromochloromethane	<0.0056		0.0056	0.00097	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
1,1-Dichloroethane	<0.0056		0.0056	0.00088	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
1,2-Dichloroethane	<0.0056		0.0056	0.00082	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
1,1-Dichloroethene	<0.0056		0.0056	0.00090	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
1,2-Dichloropropane	<0.0056		0.0056	0.00084	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
1,3-Dichloropropene, Total	<0.0056		0.0056	0.00073	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Ethylbenzene	<0.0056		0.0056	0.0011	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
2-Hexanone	<0.0056		0.0056	0.0016	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Methylene Chloride	<0.0056		0.0056	0.0015	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0015	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Methyl tert-butyl ether	<0.0056		0.0056	0.00092	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Styrene	<0.0056		0.0056	0.00073	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
1,1,2,2-Tetrachloroethane	<0.0056		0.0056	0.0011	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Tetrachloroethene	<0.0056		0.0056	0.00085	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Toluene	<0.0056		0.0056	0.00078	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
trans-1,2-Dichloroethene	<0.0056		0.0056	0.00077	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
trans-1,3-Dichloropropene	<0.0056		0.0056	0.0010	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
1,1,1-Trichloroethane	<0.0056		0.0056	0.00083	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
1,1,2-Trichloroethane	<0.0056		0.0056	0.00076	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Trichloroethene	<0.0056		0.0056	0.00092	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Vinyl acetate	<0.0056		0.0056	0.00087	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Vinyl chloride	<0.0056		0.0056	0.0012	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1
Xylenes, Total	<0.011		0.011	0.00050	mg/Kg	☼	05/16/13 11:25	05/20/13 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 122*	*05/16/13 11:25*	*05/20/13 18:41*	*1*
Dibromofluoromethane	*85*		*75 - 120*	*05/16/13 11:25*	*05/20/13 18:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 134*	*05/16/13 11:25*	*05/20/13 18:41*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*	*05/16/13 11:25*	*05/20/13 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	0.057	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B12-1
Date Collected: 05/16/13 11:25
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-13
Matrix: Solid
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Hexachlorocyclopentadiene	<0.72		0.72	0.17	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Acenaphthylene	<0.036		0.036	0.0082	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
2,4-Dinitrotoluene	<0.18	*	0.18	0.055	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Fluorene	<0.036		0.036	0.0081	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
4-Nitroaniline	<0.36		0.36	0.073	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Diethyl phthalate	<0.18	*	0.18	0.060	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Anthracene	<0.036		0.036	0.0084	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Benzo[a]anthracene	<0.036		0.036	0.0075	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1

Client Sample ID: 2181-2-B12-1
Date Collected: 05/16/13 11:25
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-13
Matrix: Solid
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0081	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Benzo[b]fluoranthene	<0.036		0.036	0.0069	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Benzo[k]fluoranthene	<0.036		0.036	0.0085	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Benzo[a]pyrene	<0.036		0.036	0.0065	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	05/20/13 17:21	06/03/13 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*37*		*30 - 110*	*05/20/13 17:21*	*06/03/13 19:46*	*1*
Phenol-d5	*34*		*31 - 110*	*05/20/13 17:21*	*06/03/13 19:46*	*1*
Nitrobenzene-d5	*35*		*30 - 115*	*05/20/13 17:21*	*06/03/13 19:46*	*1*
2-Fluorobiphenyl	*44*		*30 - 119*	*05/20/13 17:21*	*06/03/13 19:46*	*1*
2,4,6-Tribromophenol	*59*		*35 - 137*	*05/20/13 17:21*	*06/03/13 19:46*	*1*
Terphenyl-d14	*57*		*36 - 134*	*05/20/13 17:21*	*06/03/13 19:46*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Arsenic	**1.7**		0.52	0.10	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Barium	**9.4**	**B**	0.52	0.056	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Beryllium	**0.19**	**J**	0.21	0.018	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Boron	**1.5**	**J B**	2.6	0.11	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Cadmium	**0.020**	**J**	0.10	0.013	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Calcium	**2600**	**B**	10	2.8	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Chromium	**4.0**		0.52	0.060	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Cobalt	**1.1**		0.26	0.019	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Copper	**2.4**	**B**	0.52	0.046	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Iron	**2700**		10	4.3	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Lead	**8.7**	**B**	0.26	0.077	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Magnesium	**1700**	**B**	5.2	1.1	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Manganese	**26**		0.52	0.028	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Nickel	**2.8**		0.52	0.051	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Potassium	**270**		26	1.6	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Selenium	<0.52		0.52	0.18	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Sodium	**210**		52	7.0	mg/Kg	☼	05/17/13 14:00	05/26/13 04:17	1
Thallium	<0.52		0.52	0.22	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Vanadium	**6.1**		0.26	0.038	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1
Zinc	**9.8**	**B**	1.0	0.21	mg/Kg	☼	05/17/13 14:00	05/25/13 05:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.016**		0.0075	0.0050	mg/L		05/31/13 08:10	06/01/13 04:40	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B12-1
Date Collected: 05/16/13 11:25
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.059**	**J**	0.50	0.010	mg/L		05/21/13 08:20	05/26/13 02:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/21/13 08:20	05/26/13 02:19	1
Boron	**1.0**		0.10	0.050	mg/L		05/21/13 08:20	05/26/13 02:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:20	05/26/13 02:19	1
Chromium	**0.010**	**J**	0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:19	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 02:19	1
Iron	**2.4**	**B**	0.20	0.20	mg/L		05/21/13 08:20	05/26/13 02:19	1
Lead	**0.018**		0.0075	0.0050	mg/L		05/21/13 08:20	05/26/13 02:19	1
Manganese	**0.025**		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:19	1
Nickel	<0.025		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:19	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:20	05/26/13 02:19	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 02:19	1
Zinc	**0.037**	**J**	0.10	0.020	mg/L		05/21/13 08:20	05/26/13 02:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:20	05/28/13 17:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:20	05/28/13 17:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000030**	**J**	0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0087	mg/Kg	☼	05/20/13 15:20	05/21/13 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.09**		0.200	0.200	SU			05/23/13 17:01	1

Client Sample ID: 2181-2-B12-2
Date Collected: 05/16/13 11:30
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-14
Matrix: Solid
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.27		0.27	0.069	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Benzene	<0.013		0.013	0.0040	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Bromodichloromethane	<0.11		0.11	0.018	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Bromoform	<0.11		0.11	0.024	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Bromomethane	<0.11		0.11	0.036	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
2-Butanone (MEK)	<0.27		0.27	0.079	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Carbon disulfide	<0.27		0.27	0.023	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Carbon tetrachloride	<0.053		0.053	0.014	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Chlorobenzene	<0.053		0.053	0.0076	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Chloroethane	<0.11		0.11	0.023	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Chloroform	<0.053		0.053	0.011	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Chloromethane	<0.11		0.11	0.025	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
cis-1,2-Dichloroethene	<0.053		0.053	0.0066	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
cis-1,3-Dichloropropene	<0.053		0.053	0.0095	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Dibromochloromethane	<0.11		0.11	0.018	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
1,1-Dichloroethane	<0.053		0.053	0.0099	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
1,2-Dichloroethane	<0.053		0.053	0.015	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
1,1-Dichloroethene	<0.053		0.053	0.016	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
1,2-Dichloropropane	<0.053		0.053	0.010	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
1,3-Dichloropropene, Total	<0.053		0.053	0.0095	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Ethylbenzene	<0.013		0.013	0.0067	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
2-Hexanone	<0.27		0.27	0.030	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Methylene Chloride	<0.27		0.27	0.037	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
4-Methyl-2-pentanone (MIBK)	<0.27		0.27	0.018	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Methyl tert-butyl ether	<0.11		0.11	0.023	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Styrene	<0.053		0.053	0.0053	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
1,1,2,2-Tetrachloroethane	<0.053		0.053	0.013	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Tetrachloroethene	<0.053		0.053	0.0089	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Toluene	<0.013		0.013	0.0061	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
trans-1,2-Dichloroethene	<0.053		0.053	0.013	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
trans-1,3-Dichloropropene	<0.053		0.053	0.011	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
1,1,1-Trichloroethane	<0.053		0.053	0.011	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
1,1,2-Trichloroethane	<0.053		0.053	0.015	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Trichloroethene	<0.027		0.027	0.0099	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Vinyl acetate	<0.11		0.11	0.018	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Vinyl chloride	<0.013		0.013	0.0056	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50
Xylenes, Total	<0.027		0.027	0.0037	mg/Kg	☼	05/16/13 11:30	05/23/13 03:50	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*	*05/16/13 11:30*	*05/23/13 03:50*	*50*
Dibromofluoromethane	*91*		*75 - 120*	*05/16/13 11:30*	*05/23/13 03:50*	*50*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 125*	*05/16/13 11:30*	*05/23/13 03:50*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*05/16/13 11:30*	*05/23/13 03:50*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B12-2
Date Collected: 05/16/13 11:30
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-14
Matrix: Solid
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
2-Nitrophenol	<0.36		0.36	0.058	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
2,4-Dinitrotoluene	<0.18	*	0.18	0.056	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Diethyl phthalate	<0.18	*	0.18	0.061	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1

Client Sample ID: 2181-2-B12-2
Date Collected: 05/16/13 11:30
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-14
Matrix: Solid
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	05/20/13 17:21	06/04/13 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*44*		*30 - 110*	*05/20/13 17:21*	*06/04/13 17:01*	*1*
Phenol-d5	*45*		*31 - 110*	*05/20/13 17:21*	*06/04/13 17:01*	*1*
Nitrobenzene-d5	*39*		*30 - 115*	*05/20/13 17:21*	*06/04/13 17:01*	*1*
2-Fluorobiphenyl	*41*		*30 - 119*	*05/20/13 17:21*	*06/04/13 17:01*	*1*
2,4,6-Tribromophenol	*69*		*35 - 137*	*05/20/13 17:21*	*06/04/13 17:01*	*1*
Terphenyl-d14	*66*		*36 - 134*	*05/20/13 17:21*	*06/04/13 17:01*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Arsenic	**2.4**		0.52	0.10	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Barium	**20**	**B**	0.52	0.056	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Beryllium	**0.40**		0.21	0.019	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Boron	**1.8**	**J B**	2.6	0.11	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Cadmium	<0.10		0.10	0.013	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Calcium	**1200**	**B**	10	2.8	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Chromium	**8.5**		0.52	0.061	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Cobalt	**2.1**		0.26	0.019	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Copper	**3.4**	**B**	0.52	0.047	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Iron	**4300**		10	4.3	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Lead	**4.8**	**B**	0.26	0.078	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Magnesium	**1100**	**B**	5.2	1.1	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Manganese	**31**		0.52	0.028	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Nickel	**5.5**		0.52	0.051	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Potassium	**420**		26	1.6	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Selenium	**0.20**	**J**	0.52	0.19	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Sodium	**320**		52	7.0	mg/Kg	☼	05/17/13 14:00	05/26/13 04:21	1
Thallium	<0.52		0.52	0.22	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Vanadium	**24**		0.26	0.039	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1
Zinc	**14**	**B**	1.0	0.21	mg/Kg	☼	05/17/13 14:00	05/25/13 05:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**7.5**		0.20	0.20	mg/L		05/31/13 08:10	06/01/13 04:46	1
Lead	**0.0078**		0.0075	0.0050	mg/L		05/31/13 08:10	06/01/13 04:46	1
Manganese	**0.13**		0.025	0.010	mg/L		05/31/13 08:10	06/01/13 04:46	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B12-2
Date Collected: 05/16/13 11:30
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27	J	0.50	0.010	mg/L		05/21/13 08:20	05/26/13 02:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/21/13 08:20	05/26/13 02:25	1
Boron	0.58		0.10	0.050	mg/L		05/21/13 08:20	05/26/13 02:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:20	05/26/13 02:25	1
Chromium	0.097		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:25	1
Cobalt	0.019	J	0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 02:25	1
Iron	50	B	0.20	0.20	mg/L		05/21/13 08:20	05/26/13 02:25	1
Lead	0.033		0.0075	0.0050	mg/L		05/21/13 08:20	05/26/13 02:25	1
Manganese	0.17		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:25	1
Nickel	0.054		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:25	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:20	05/26/13 02:25	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 02:25	1
Zinc	0.13		0.10	0.020	mg/L		05/21/13 08:20	05/26/13 02:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:20	05/28/13 17:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:20	05/28/13 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020		0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0090	mg/Kg	☼	05/20/13 15:20	05/21/13 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.17		0.200	0.200	SU			05/23/13 16:57	1

Client Sample ID: 2181-2-B13-1
Date Collected: 05/16/13 11:15
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-15
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Bromodichloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Bromoform	<0.0043		0.0043	0.0010	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Bromomethane	<0.0043	*	0.0043	0.0013	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
1,1-Dichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	05/16/13 11:15	05/20/13 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 122*	*05/16/13 11:15*	*05/20/13 19:27*	*1*
Dibromofluoromethane	*88*		*75 - 120*	*05/16/13 11:15*	*05/20/13 19:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 134*	*05/16/13 11:15*	*05/20/13 19:27*	*1*
Toluene-d8 (Surr)	*97*		*75 - 122*	*05/16/13 11:15*	*05/20/13 19:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B13-1
Date Collected: 05/16/13 11:15
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-15
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
2,4-Dinitrotoluene	<0.19	*	0.19	0.059	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Diethyl phthalate	<0.19	*	0.19	0.064	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Fluoranthene	**0.019**	**J**	0.038	0.016	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Pyrene	**0.018**	**J**	0.038	0.014	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Benzo[a]anthracene	**0.013**	**J**	0.038	0.0081	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1

Client Sample ID: 2181-2-B13-1
Date Collected: 05/16/13 11:15
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-15
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Benzo[b]fluoranthene	**0.018**	**J**	0.038	0.0075	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Benzo[a]pyrene	**0.012**	**J**	0.038	0.0070	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
Benzo[g,h,i]perylene	**0.015**	**J**	0.038	0.013	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	05/20/13 17:21	06/04/13 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*42*		*30 - 110*	*05/20/13 17:21*	*06/04/13 16:03*	*1*
Phenol-d5	*43*		*31 - 110*	*05/20/13 17:21*	*06/04/13 16:03*	*1*
Nitrobenzene-d5	*36*		*30 - 115*	*05/20/13 17:21*	*06/04/13 16:03*	*1*
2-Fluorobiphenyl	*38*		*30 - 119*	*05/20/13 17:21*	*06/04/13 16:03*	*1*
2,4,6-Tribromophenol	*71*		*35 - 137*	*05/20/13 17:21*	*06/04/13 16:03*	*1*
Terphenyl-d14	*64*		*36 - 134*	*05/20/13 17:21*	*06/04/13 16:03*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Arsenic	**5.5**		0.56	0.11	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Barium	**14**	**B**	0.56	0.059	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Beryllium	**0.34**		0.22	0.020	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Boron	**2.9**	**B**	2.8	0.12	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Cadmium	<0.11		0.11	0.014	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Calcium	**1000**	**B**	11	3.0	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Chromium	**9.7**		0.56	0.064	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Cobalt	**5.0**		0.28	0.020	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Copper	**10**	**B**	0.56	0.049	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Iron	**12000**		11	4.6	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Lead	**8.3**	**B**	0.28	0.083	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Magnesium	**1300**	**B**	5.6	1.1	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Manganese	**41**		0.56	0.030	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Nickel	**13**		0.56	0.054	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Potassium	**610**		28	1.7	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Selenium	**0.26**	**J**	0.56	0.20	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Sodium	**710**		56	7.4	mg/Kg	☼	05/17/13 14:00	05/26/13 04:25	1
Thallium	<0.56		0.56	0.23	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Vanadium	**19**		0.28	0.041	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1
Zinc	**24**	**B**	1.1	0.22	mg/Kg	☼	05/17/13 14:00	05/25/13 05:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/31/13 08:10	06/01/13 04:52	1
Chromium	<0.025		0.025	0.010	mg/L		05/31/13 08:10	06/01/13 04:52	1
Iron	**4.4**		0.20	0.20	mg/L		05/31/13 08:10	06/01/13 04:52	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B13-1
Date Collected: 05/16/13 11:15
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.021		0.0075	0.0050	mg/L		05/31/13 08:10	06/01/13 04:52	1
Manganese	0.17		0.025	0.010	mg/L		05/31/13 08:10	06/01/13 04:52	1
Nickel	0.012	J	0.025	0.010	mg/L		05/31/13 08:10	06/01/13 04:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.24	J	0.50	0.010	mg/L		05/21/13 08:20	05/26/13 02:31	1
Beryllium	0.0044		0.0040	0.0040	mg/L		05/21/13 08:20	05/26/13 02:31	1
Boron	0.75		0.10	0.050	mg/L		05/21/13 08:20	05/26/13 02:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:20	05/26/13 02:31	1
Chromium	0.11		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:31	1
Cobalt	0.042		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 02:31	1
Iron	120	B	0.20	0.20	mg/L		05/21/13 08:20	05/26/13 02:31	1
Lead	0.11		0.0075	0.0050	mg/L		05/21/13 08:20	05/26/13 02:31	1
Manganese	0.22		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:31	1
Nickel	0.12		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:31	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:20	05/26/13 02:31	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 02:31	1
Zinc	0.21		0.10	0.020	mg/L		05/21/13 08:20	05/26/13 02:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:20	05/28/13 17:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:20	05/28/13 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00028		0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0090	mg/Kg	☼	05/20/13 15:20	05/21/13 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.89		0.200	0.200	SU			05/23/13 16:54	1

Client Sample ID: 2181-2-B13-2
Date Collected: 05/16/13 11:20
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-16
Matrix: Solid
Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Bromomethane	<0.0051	*	0.0051	0.0015	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Carbon tetrachloride	<0.0051		0.0051	0.00092	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Chloroform	<0.0051		0.0051	0.00058	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Dibromochloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	05/16/13 11:20	05/20/13 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 122*	*05/16/13 11:20*	*05/20/13 19:49*	*1*
Dibromofluoromethane	*93*		*75 - 120*	*05/16/13 11:20*	*05/20/13 19:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 134*	*05/16/13 11:20*	*05/20/13 19:49*	*1*
Toluene-d8 (Surr)	*95*		*75 - 122*	*05/16/13 11:20*	*05/20/13 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	☼	05/20/13 17:21	06/04/13 16:22	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B13-2
Date Collected: 05/16/13 11:20
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-16
Matrix: Solid
Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
2,4-Dinitrotoluene	<0.20	*	0.20	0.062	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Diethyl phthalate	<0.20	*	0.20	0.067	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Pyrene	**0.017**	**J**	0.040	0.015	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1

Client Sample ID: 2181-2-B13-2
Date Collected: 05/16/13 11:20
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-16
Matrix: Solid
Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Benzo[b]fluoranthene	**0.010**	**J**	0.040	0.0078	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	05/20/13 17:21	06/04/13 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*44*		*30 - 110*	*05/20/13 17:21*	*06/04/13 16:22*	*1*
Phenol-d5	*52*		*31 - 110*	*05/20/13 17:21*	*06/04/13 16:22*	*1*
Nitrobenzene-d5	*35*		*30 - 115*	*05/20/13 17:21*	*06/04/13 16:22*	*1*
2-Fluorobiphenyl	*41*		*30 - 119*	*05/20/13 17:21*	*06/04/13 16:22*	*1*
2,4,6-Tribromophenol	*73*		*35 - 137*	*05/20/13 17:21*	*06/04/13 16:22*	*1*
Terphenyl-d14	*61*		*36 - 134*	*05/20/13 17:21*	*06/04/13 16:22*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Arsenic	**4.7**		0.56	0.11	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Barium	**9.1**	**B**	0.56	0.060	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Beryllium	**0.36**		0.22	0.020	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Boron	**4.6**	**B**	2.8	0.12	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Cadmium	**0.11**		0.11	0.014	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Calcium	**28000**	**B**	11	3.0	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Chromium	**7.4**		0.56	0.065	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Cobalt	**5.3**		0.28	0.020	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Copper	**12**	**B**	0.56	0.050	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Iron	**5900**		11	4.6	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Lead	**6.1**	**B**	0.28	0.083	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Magnesium	**18000**	**B**	5.6	1.1	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Manganese	**150**		0.56	0.030	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Nickel	**12**		0.56	0.055	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Potassium	**900**		28	1.7	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Selenium	**0.22**	**J**	0.56	0.20	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Sodium	**270**		56	7.5	mg/Kg	☼	05/17/13 14:00	05/26/13 04:29	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Vanadium	**30**		0.28	0.041	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1
Zinc	**27**	**B**	1.1	0.23	mg/Kg	☼	05/17/13 14:00	05/25/13 05:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/31/13 08:10	06/01/13 04:59	1
Lead	**0.0061**	**J**	0.0075	0.0050	mg/L		05/31/13 08:10	06/01/13 04:59	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B13-2
Date Collected: 05/16/13 11:20
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.086	J	0.50	0.010	mg/L		05/21/13 08:20	05/26/13 02:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/21/13 08:20	05/26/13 02:37	1
Boron	0.64		0.10	0.050	mg/L		05/21/13 08:20	05/26/13 02:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:20	05/26/13 02:37	1
Chromium	0.037		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:37	1
Cobalt	0.021	J	0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 02:37	1
Iron	22	B	0.20	0.20	mg/L		05/21/13 08:20	05/26/13 02:37	1
Lead	0.027		0.0075	0.0050	mg/L		05/21/13 08:20	05/26/13 02:37	1
Manganese	0.10		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:37	1
Nickel	0.046		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:37	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:20	05/26/13 02:37	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 02:37	1
Zinc	0.11		0.10	0.020	mg/L		05/21/13 08:20	05/26/13 02:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:20	05/28/13 17:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:20	05/28/13 17:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000087	J	0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.0087	mg/Kg	☼	05/20/13 15:20	05/21/13 12:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.89		0.200	0.200	SU			05/23/13 16:51	1

Client Sample ID: 2181-2-B14-1
Date Collected: 05/16/13 11:00
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-17
Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0023	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Bromodichloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Carbon tetrachloride	<0.0052		0.0052	0.00095	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Dibromochloromethane	<0.0052		0.0052	0.00091	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Ethylbenzene	<0.0052		0.0052	0.0011	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00086	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Tetrachloroethene	<0.0052		0.0052	0.00080	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00072	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Vinyl acetate	<0.0052	*	0.0052	0.00082	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	05/16/13 11:00	05/21/13 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 122*	*05/16/13 11:00*	*05/21/13 12:26*	*1*
Dibromofluoromethane	*95*		*75 - 120*	*05/16/13 11:00*	*05/21/13 12:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*	*05/16/13 11:00*	*05/21/13 12:26*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*	*05/16/13 11:00*	*05/21/13 12:26*	*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	☼	05/20/13 17:21	06/04/13 16:41	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B14-1
Date Collected: 05/16/13 11:00
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-17
Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
2,4-Dinitrotoluene	<0.20	*	0.20	0.062	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Diethyl phthalate	<0.20	*	0.20	0.067	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Phenanthrene	**0.043**		0.040	0.017	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Fluoranthene	**0.11**		0.040	0.017	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Pyrene	**0.089**		0.040	0.015	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Benzo[a]anthracene	**0.052**		0.040	0.0085	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B14-1
Date Collected: 05/16/13 11:00
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-17
Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.055**		0.040	0.0091	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Benzo[b]fluoranthene	**0.073**		0.040	0.0078	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Benzo[k]fluoranthene	**0.039**	**J**	0.040	0.0096	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Benzo[a]pyrene	**0.054**		0.040	0.0074	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Indeno[1,2,3-cd]pyrene	**0.041**		0.040	0.014	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Dibenz(a,h)anthracene	**0.011**	**J**	0.040	0.011	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
Benzo[g,h,i]perylene	**0.056**		0.040	0.014	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	05/20/13 17:21	06/04/13 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*44*		*30 - 110*	*05/20/13 17:21*	*06/04/13 16:41*	*1*
Phenol-d5	*48*		*31 - 110*	*05/20/13 17:21*	*06/04/13 16:41*	*1*
Nitrobenzene-d5	*38*		*30 - 115*	*05/20/13 17:21*	*06/04/13 16:41*	*1*
2-Fluorobiphenyl	*44*		*30 - 119*	*05/20/13 17:21*	*06/04/13 16:41*	*1*
2,4,6-Tribromophenol	*71*		*35 - 137*	*05/20/13 17:21*	*06/04/13 16:41*	*1*
Terphenyl-d14	*64*		*36 - 134*	*05/20/13 17:21*	*06/04/13 16:41*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Arsenic	**12**		0.59	0.12	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Barium	**28**	**B**	0.59	0.063	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Beryllium	**0.43**		0.24	0.021	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Boron	**3.5**	**B**	3.0	0.12	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Cadmium	**0.092**	**J**	0.12	0.015	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Calcium	**6300**	**B**	12	3.2	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Chromium	**10**		0.59	0.069	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Cobalt	**4.9**		0.30	0.021	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Copper	**14**	**B**	0.59	0.052	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Iron	**15000**		12	4.9	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Lead	**18**	**B**	0.30	0.088	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Magnesium	**4200**	**B**	5.9	1.2	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Manganese	**150**		0.59	0.032	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Nickel	**15**		0.59	0.058	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Potassium	**640**		30	1.8	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Selenium	**0.24**	**J**	0.59	0.21	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Sodium	**610**		59	7.9	mg/Kg	☼	05/17/13 14:00	05/26/13 04:34	1
Thallium	<0.59		0.59	0.25	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Vanadium	**26**		0.30	0.044	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1
Zinc	**33**	**B**	1.2	0.24	mg/Kg	☼	05/17/13 14:00	05/25/13 06:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/31/13 08:10	06/01/13 05:05	1
Lead	**0.0089**		0.0075	0.0050	mg/L		05/31/13 08:10	06/01/13 05:05	1
Manganese	**0.81**		0.025	0.010	mg/L		05/31/13 08:10	06/01/13 05:05	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B14-1
Date Collected: 05/16/13 11:00
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-17
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J	0.50	0.010	mg/L		05/21/13 08:20	05/26/13 02:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/21/13 08:20	05/26/13 02:43	1
Boron	0.90		0.10	0.050	mg/L		05/21/13 08:20	05/26/13 02:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:20	05/26/13 02:43	1
Chromium	0.048		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:43	1
Cobalt	0.012	J	0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 02:43	1
Iron	39	B	0.20	0.20	mg/L		05/21/13 08:20	05/26/13 02:43	1
Lead	0.038		0.0075	0.0050	mg/L		05/21/13 08:20	05/26/13 02:43	1
Manganese	0.23		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:43	1
Nickel	0.048		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:43	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:20	05/26/13 02:43	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 02:43	1
Zinc	0.13		0.10	0.020	mg/L		05/21/13 08:20	05/26/13 02:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:20	05/28/13 17:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:20	05/28/13 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000077	J	0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.020	0.0094	mg/Kg	☼	05/20/13 15:20	05/21/13 12:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.53		0.200	0.200	SU			05/23/13 17:11	1

Client Sample ID: 2181-2-B14-2 Dup
Date Collected: 05/16/13 11:10
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-18
Matrix: Solid
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0021	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Carbon disulfide	<0.0050		0.0050	0.00074	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Carbon tetrachloride	<0.0050		0.0050	0.00090	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Chlorobenzene	<0.0050		0.0050	0.00050	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Chloroethane	<0.0050		0.0050	0.0013	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Dibromochloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
1,1-Dichloroethane	<0.0050		0.0050	0.00078	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
1,2-Dichloroethane	<0.0050		0.0050	0.00073	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
1,2-Dichloropropane	<0.0050		0.0050	0.00075	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Toluene	<0.0050		0.0050	0.00069	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00068	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Vinyl acetate	<0.0050		0.0050	0.00078	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	05/16/13 11:10	05/20/13 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 122*	*05/16/13 11:10*	*05/20/13 22:50*	*1*
Dibromofluoromethane	*90*		*75 - 120*	*05/16/13 11:10*	*05/20/13 22:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 134*	*05/16/13 11:10*	*05/20/13 22:50*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*	*05/16/13 11:10*	*05/20/13 22:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B14-2 Dup
Date Collected: 05/16/13 11:10
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-18
Matrix: Solid
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
2,4-Dinitrotoluene	<0.20	*	0.20	0.062	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Diethyl phthalate	<0.20	*	0.20	0.067	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1

Client Sample ID: 2181-2-B14-2 Dup
Date Collected: 05/16/13 11:10
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-18
Matrix: Solid
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	05/20/13 17:21	06/04/13 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*42*		*30 - 110*	*05/20/13 17:21*	*06/04/13 15:23*	*1*
Phenol-d5	*47*		*31 - 110*	*05/20/13 17:21*	*06/04/13 15:23*	*1*
Nitrobenzene-d5	*41*		*30 - 115*	*05/20/13 17:21*	*06/04/13 15:23*	*1*
2-Fluorobiphenyl	*46*		*30 - 119*	*05/20/13 17:21*	*06/04/13 15:23*	*1*
2,4,6-Tribromophenol	*76*		*35 - 137*	*05/20/13 17:21*	*06/04/13 15:23*	*1*
Terphenyl-d14	*67*		*36 - 134*	*05/20/13 17:21*	*06/04/13 15:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Arsenic	**7.3**		0.59	0.12	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Barium	**7.5**	**B**	0.59	0.064	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Beryllium	**0.34**		0.24	0.021	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Boron	**4.2**	**B**	3.0	0.12	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Cadmium	**0.13**		0.12	0.015	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Calcium	**28000**	**B**	12	3.2	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Chromium	**6.5**		0.59	0.069	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Cobalt	**4.2**		0.30	0.021	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Copper	**9.7**	**B**	0.59	0.053	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Iron	**6500**		12	4.9	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Lead	**5.6**	**B**	0.30	0.089	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Magnesium	**17000**	**B**	5.9	1.2	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Manganese	**180**		0.59	0.032	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Nickel	**9.4**		0.59	0.058	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Potassium	**760**		30	1.8	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Sodium	**320**		59	8.0	mg/Kg	☼	05/17/13 14:00	05/26/13 04:39	1
Thallium	<0.59		0.59	0.25	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Vanadium	**22**		0.30	0.044	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1
Zinc	**28**	**B**	1.2	0.24	mg/Kg	☼	05/17/13 14:00	05/25/13 06:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/31/13 08:10	06/01/13 05:26	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B14-2 Dup
Date Collected: 05/16/13 11:10
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-18
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.057	J	0.50	0.010	mg/L		05/21/13 08:20	05/26/13 02:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/21/13 08:20	05/26/13 02:50	1
Boron	1.1		0.10	0.050	mg/L		05/21/13 08:20	05/26/13 02:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:20	05/26/13 02:50	1
Chromium	0.014	J	0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:50	1
Cobalt	0.0050	J	0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 02:50	1
Iron	5.9	B	0.20	0.20	mg/L		05/21/13 08:20	05/26/13 02:50	1
Lead	0.0072	J	0.0075	0.0050	mg/L		05/21/13 08:20	05/26/13 02:50	1
Manganese	0.089		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:50	1
Nickel	<0.025		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:50	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:20	05/26/13 02:50	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 02:50	1
Zinc	0.041	J	0.10	0.020	mg/L		05/21/13 08:20	05/26/13 02:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:20	05/28/13 17:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:20	05/28/13 17:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 14:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.019	0.0088	mg/Kg	☼	05/20/13 15:20	05/21/13 12:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.83		0.200	0.200	SU			05/23/13 17:08	1

Client Sample ID: 2181-2-B14-2
Date Collected: 05/16/13 11:05
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-19
Matrix: Solid
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.27		0.27	0.070	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Benzene	<0.014		0.014	0.0040	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Bromodichloromethane	<0.11		0.11	0.018	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Bromoform	<0.11		0.11	0.024	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Bromomethane	<0.11		0.11	0.037	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
2-Butanone (MEK)	<0.27		0.27	0.080	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Carbon disulfide	<0.27		0.27	0.023	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Carbon tetrachloride	<0.054		0.054	0.014	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Chlorobenzene	<0.054		0.054	0.0077	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Chloroethane	<0.11		0.11	0.024	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Chloroform	<0.054		0.054	0.011	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Chloromethane	<0.11		0.11	0.025	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
cis-1,2-Dichloroethene	<0.054		0.054	0.0067	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
cis-1,3-Dichloropropene	<0.054		0.054	0.0096	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Dibromochloromethane	<0.11		0.11	0.019	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
1,1-Dichloroethane	<0.054		0.054	0.010	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
1,2-Dichloroethane	<0.054		0.054	0.015	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
1,1-Dichloroethene	<0.054		0.054	0.017	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
1,2-Dichloropropane	<0.054		0.054	0.011	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
1,3-Dichloropropene, Total	<0.054		0.054	0.0096	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Ethylbenzene	<0.014		0.014	0.0068	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
2-Hexanone	<0.27		0.27	0.030	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Methylene Chloride	<0.27		0.27	0.037	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
4-Methyl-2-pentanone (MIBK)	<0.27		0.27	0.018	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Methyl tert-butyl ether	<0.11		0.11	0.023	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Styrene	<0.054		0.054	0.0053	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
1,1,2,2-Tetrachloroethane	<0.054		0.054	0.013	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Tetrachloroethene	<0.054		0.054	0.0090	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Toluene	<0.014		0.014	0.0062	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
trans-1,2-Dichloroethene	<0.054		0.054	0.014	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
trans-1,3-Dichloropropene	<0.054		0.054	0.011	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
1,1,1-Trichloroethane	<0.054		0.054	0.011	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
1,1,2-Trichloroethane	<0.054		0.054	0.015	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Trichloroethene	**0.015**	**J**	0.027	0.010	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Vinyl acetate	<0.11		0.11	0.018	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Vinyl chloride	<0.014		0.014	0.0056	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50
Xylenes, Total	<0.027		0.027	0.0037	mg/Kg	☼	05/16/13 11:05	05/23/13 04:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*	*05/16/13 11:05*	*05/23/13 04:15*	*50*
Dibromofluoromethane	*88*		*75 - 120*	*05/16/13 11:05*	*05/23/13 04:15*	*50*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 125*	*05/16/13 11:05*	*05/23/13 04:15*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*05/16/13 11:05*	*05/23/13 04:15*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B14-2
Date Collected: 05/16/13 11:05
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-19
Matrix: Solid
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
2,4-Dinitrotoluene	<0.19	*	0.19	0.059	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Diethyl phthalate	<0.19	*	0.19	0.064	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1

Client Sample ID: 2181-2-B14-2
Date Collected: 05/16/13 11:05
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-19
Matrix: Solid
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	05/20/13 17:21	06/04/13 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*37*		*30 - 110*	*05/20/13 17:21*	*06/04/13 15:43*	*1*
Phenol-d5	*39*		*31 - 110*	*05/20/13 17:21*	*06/04/13 15:43*	*1*
Nitrobenzene-d5	*31*		*30 - 115*	*05/20/13 17:21*	*06/04/13 15:43*	*1*
2-Fluorobiphenyl	*30*		*30 - 119*	*05/20/13 17:21*	*06/04/13 15:43*	*1*
2,4,6-Tribromophenol	*50*		*35 - 137*	*05/20/13 17:21*	*06/04/13 15:43*	*1*
Terphenyl-d14	*44*		*36 - 134*	*05/20/13 17:21*	*06/04/13 15:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Arsenic	**2.2**		0.57	0.11	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Barium	**12**	**B**	0.57	0.061	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Beryllium	**0.32**		0.23	0.020	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Boron	**3.2**	**B**	2.9	0.12	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Cadmium	<0.11		0.11	0.015	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Calcium	**8700**	**B**	11	3.1	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Chromium	**7.2**		0.57	0.066	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Cobalt	**2.4**		0.29	0.020	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Copper	**8.2**	**B**	0.57	0.051	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Iron	**6800**		11	4.7	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Lead	**5.7**	**B**	0.29	0.085	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Magnesium	**5800**	**B**	5.7	1.2	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Manganese	**82**		0.57	0.031	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Nickel	**8.1**		0.57	0.056	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Potassium	**640**		29	1.7	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Sodium	**440**		57	7.7	mg/Kg	☼	05/17/13 14:00	05/26/13 04:52	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Vanadium	**18**		0.29	0.042	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1
Zinc	**22**	**B**	1.1	0.23	mg/Kg	☼	05/17/13 14:00	05/25/13 06:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/31/13 08:10	06/01/13 05:32	1
Lead	**0.0094**		0.0075	0.0050	mg/L		05/31/13 08:10	06/01/13 05:32	1
Manganese	**2.0**		0.025	0.010	mg/L		05/31/13 08:10	06/01/13 05:32	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B14-2
Date Collected: 05/16/13 11:05
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.13	J	0.50	0.010	mg/L		05/21/13 08:20	05/26/13 02:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/21/13 08:20	05/26/13 02:56	1
Boron	0.78		0.10	0.050	mg/L		05/21/13 08:20	05/26/13 02:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:20	05/26/13 02:56	1
Chromium	0.054		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:56	1
Cobalt	0.012	J	0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 02:56	1
Iron	45	B	0.20	0.20	mg/L		05/21/13 08:20	05/26/13 02:56	1
Lead	0.036		0.0075	0.0050	mg/L		05/21/13 08:20	05/26/13 02:56	1
Manganese	0.21		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:56	1
Nickel	0.039		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 02:56	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:20	05/26/13 02:56	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 02:56	1
Zinc	0.11		0.10	0.020	mg/L		05/21/13 08:20	05/26/13 02:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:20	05/28/13 17:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:20	05/28/13 17:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000065	J	0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0086	mg/Kg	☼	05/20/13 15:20	05/21/13 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.89		0.200	0.200	SU			05/23/13 16:37	1

Client Sample ID: 2181-2-B15-1
Date Collected: 05/16/13 10:45
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-21
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Vinyl acetate	<0.0044		0.0044	0.00070	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	05/16/13 10:45	05/20/13 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 122*	*05/16/13 10:45*	*05/20/13 23:35*	*1*
Dibromofluoromethane	*91*		*75 - 120*	*05/16/13 10:45*	*05/20/13 23:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 134*	*05/16/13 10:45*	*05/20/13 23:35*	*1*
Toluene-d8 (Surr)	*98*		*75 - 122*	*05/16/13 10:45*	*05/20/13 23:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B15-1
Date Collected: 05/16/13 10:45
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-21
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
2,4-Dinitrotoluene	<0.20	*	0.20	0.060	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Diethyl phthalate	<0.20	*	0.20	0.065	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1

Client Sample ID: 2181-2-B15-1
Date Collected: 05/16/13 10:45
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-21
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Benzo[b]fluoranthene	**0.0097**	**J**	0.039	0.0076	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	05/20/13 17:21	06/04/13 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*37*		*30 - 110*	*05/20/13 17:21*	*06/04/13 17:20*	*1*
Phenol-d5	*39*		*31 - 110*	*05/20/13 17:21*	*06/04/13 17:20*	*1*
Nitrobenzene-d5	*35*		*30 - 115*	*05/20/13 17:21*	*06/04/13 17:20*	*1*
2-Fluorobiphenyl	*36*		*30 - 119*	*05/20/13 17:21*	*06/04/13 17:20*	*1*
2,4,6-Tribromophenol	*69*		*35 - 137*	*05/20/13 17:21*	*06/04/13 17:20*	*1*
Terphenyl-d14	*77*		*36 - 134*	*05/20/13 17:21*	*06/04/13 17:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Arsenic	**4.4**		0.57	0.11	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Barium	**14**	**B**	0.57	0.061	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Beryllium	**0.44**		0.23	0.020	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Boron	**4.4**	**B**	2.9	0.12	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Cadmium	<0.11		0.11	0.015	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Calcium	**29000**	**B**	11	3.1	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Chromium	**8.9**		0.57	0.066	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Cobalt	**4.3**		0.29	0.020	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Copper	**15**	**B**	0.57	0.051	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Iron	**9300**		11	4.7	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Lead	**7.9**	**B**	0.29	0.085	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Magnesium	**19000**	**B**	5.7	1.2	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Manganese	**180**		0.57	0.031	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Nickel	**12**		0.57	0.056	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Potassium	**920**		29	1.7	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Sodium	**490**		57	7.7	mg/Kg	☼	05/17/13 14:00	05/26/13 04:56	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Vanadium	**28**		0.29	0.042	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1
Zinc	**27**	**B**	1.1	0.23	mg/Kg	☼	05/17/13 14:00	05/25/13 06:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/31/13 08:10	06/01/13 05:38	1
Chromium	<0.025		0.025	0.010	mg/L		05/31/13 08:10	06/01/13 05:38	1
Iron	**0.78**		0.20	0.20	mg/L		05/31/13 08:10	06/01/13 05:38	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B15-1
Date Collected: 05/16/13 10:45
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-21
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.023		0.0075	0.0050	mg/L		05/31/13 08:10	06/01/13 05:38	1
Manganese	0.43		0.025	0.010	mg/L		05/31/13 08:10	06/01/13 05:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.33	J	0.50	0.010	mg/L		05/21/13 08:20	05/26/13 03:17	1
Beryllium	0.0044		0.0040	0.0040	mg/L		05/21/13 08:20	05/26/13 03:17	1
Boron	0.87		0.10	0.050	mg/L		05/21/13 08:20	05/26/13 03:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:20	05/26/13 03:17	1
Chromium	0.11		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 03:17	1
Cobalt	0.028		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 03:17	1
Iron	72	B	0.20	0.20	mg/L		05/21/13 08:20	05/26/13 03:17	1
Lead	0.059		0.0075	0.0050	mg/L		05/21/13 08:20	05/26/13 03:17	1
Manganese	0.29		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 03:17	1
Nickel	0.095		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 03:17	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:20	05/26/13 03:17	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 03:17	1
Zinc	0.17		0.10	0.020	mg/L		05/21/13 08:20	05/26/13 03:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:20	05/28/13 18:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:20	05/28/13 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00019	J	0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 15:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0091	mg/Kg	☼	05/20/13 15:20	05/21/13 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.16		0.200	0.200	SU			05/23/13 16:34	1

Client Sample ID: 2181-2-B15-2
Date Collected: 05/16/13 10:50
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-22
Matrix: Solid
Percent Solids: 78.8

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	☼	05/16/13 10:50	05/20/13 23:58	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Carbon disulfide	<0.0050		0.0050	0.00074	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Carbon tetrachloride	<0.0050		0.0050	0.00090	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Chlorobenzene	<0.0050		0.0050	0.00050	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
1,2-Dichloropropane	<0.0050		0.0050	0.00075	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00068	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Vinyl acetate	<0.0050		0.0050	0.00078	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	05/16/13 10:50	05/20/13 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 122*	*05/16/13 10:50*	*05/20/13 23:58*	*1*
Dibromofluoromethane	*91*		*75 - 120*	*05/16/13 10:50*	*05/20/13 23:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 134*	*05/16/13 10:50*	*05/20/13 23:58*	*1*
Toluene-d8 (Surr)	*104*		*75 - 122*	*05/16/13 10:50*	*05/20/13 23:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B15-2
Date Collected: 05/16/13 10:50
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-22
Matrix: Solid
Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
2,4-Dinitrotoluene	<0.20	*	0.20	0.061	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Diethyl phthalate	<0.20	*	0.20	0.066	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Benzo[a]anthracene	**0.010**	**J**	0.039	0.0083	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1

Client Sample ID: 2181-2-B15-2
Date Collected: 05/16/13 10:50
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-22
Matrix: Solid
Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0090	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Benzo[k]fluoranthene	<0.039		0.039	0.0095	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	05/20/13 17:21	06/03/13 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*39*		*30 - 110*	*05/20/13 17:21*	*06/03/13 22:13*	*1*
Phenol-d5	*38*		*31 - 110*	*05/20/13 17:21*	*06/03/13 22:13*	*1*
Nitrobenzene-d5	*37*		*30 - 115*	*05/20/13 17:21*	*06/03/13 22:13*	*1*
2-Fluorobiphenyl	*52*		*30 - 119*	*05/20/13 17:21*	*06/03/13 22:13*	*1*
2,4,6-Tribromophenol	*69*		*35 - 137*	*05/20/13 17:21*	*06/03/13 22:13*	*1*
Terphenyl-d14	*72*		*36 - 134*	*05/20/13 17:21*	*06/03/13 22:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.51	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Arsenic	**6.1**		0.63	0.13	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Barium	**12**	**B**	0.63	0.068	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Beryllium	**0.36**		0.25	0.022	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Boron	**3.6**	**B**	3.2	0.13	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Cadmium	<0.13		0.13	0.016	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Calcium	**8800**	**B**	13	3.4	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Chromium	**8.0**		0.63	0.073	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Cobalt	**4.5**		0.32	0.023	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Copper	**14**	**B**	0.63	0.056	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Iron	**9400**		13	5.2	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Lead	**7.1**	**B**	0.32	0.094	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Magnesium	**5800**	**B**	6.3	1.3	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Manganese	**120**		0.63	0.034	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Nickel	**11**		0.63	0.062	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Potassium	**660**		32	1.9	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Selenium	<0.63		0.63	0.22	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Sodium	**390**		63	8.5	mg/Kg	☼	05/17/13 14:00	05/26/13 05:01	1
Thallium	<0.63		0.63	0.27	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Vanadium	**30**		0.32	0.047	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1
Zinc	**25**	**B**	1.3	0.26	mg/Kg	☼	05/17/13 14:00	05/25/13 06:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/31/13 08:10	06/01/13 05:45	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/31/13 08:10	06/01/13 05:45	1
Manganese	**1.7**		0.025	0.010	mg/L		05/31/13 08:10	06/01/13 05:45	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B15-2
Date Collected: 05/16/13 10:50
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-22
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.073	J	0.50	0.010	mg/L		05/21/13 08:20	05/26/13 03:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/21/13 08:20	05/26/13 03:23	1
Boron	0.83		0.10	0.050	mg/L		05/21/13 08:20	05/26/13 03:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:20	05/26/13 03:23	1
Chromium	0.026		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 03:23	1
Cobalt	0.012	J	0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 03:23	1
Iron	29	B	0.20	0.20	mg/L		05/21/13 08:20	05/26/13 03:23	1
Lead	0.023		0.0075	0.0050	mg/L		05/21/13 08:20	05/26/13 03:23	1
Manganese	0.16		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 03:23	1
Nickel	0.029		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 03:23	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:20	05/26/13 03:23	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 03:23	1
Zinc	0.11		0.10	0.020	mg/L		05/21/13 08:20	05/26/13 03:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:20	05/28/13 18:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:20	05/28/13 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000033	J	0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 15:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.019	0.0090	mg/Kg	☼	05/20/13 15:20	05/21/13 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.90		0.200	0.200	SU			05/23/13 16:31	1

Client Sample ID: 2181-2-B07-1
Date Collected: 05/16/13 13:00
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-37
Matrix: Solid
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0022	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Chlorobenzene	<0.0052		0.0052	0.00052	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Chloroform	<0.0052		0.0052	0.00059	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
1,2-Dichloropropane	<0.0052		0.0052	0.00078	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00085	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Toluene	<0.0052		0.0052	0.00072	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00070	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Vinyl acetate	<0.0052		0.0052	0.00081	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	05/16/13 13:00	05/21/13 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 122*	*05/16/13 13:00*	*05/21/13 03:47*	*1*
Dibromofluoromethane	*99*		*75 - 120*	*05/16/13 13:00*	*05/21/13 03:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*05/16/13 13:00*	*05/21/13 03:47*	*1*
Toluene-d8 (Surr)	*97*		*75 - 122*	*05/16/13 13:00*	*05/21/13 03:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B07-1
Date Collected: 05/16/13 13:00
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-37
Matrix: Solid
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
2,4-Dinitrophenol	<0.81	*	0.81	0.21	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Phenanthrene	**0.019**	**J**	0.040	0.017	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Fluoranthene	**0.037**	**J**	0.040	0.017	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Pyrene	**0.030**	**J**	0.040	0.015	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Benzo[a]anthracene	**0.020**	**J**	0.040	0.0085	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1

Client Sample ID: 2181-2-B07-1
Date Collected: 05/16/13 13:00
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-37
Matrix: Solid
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.040	0.0091	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	05/17/13 17:10	05/21/13 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*41*		*30 - 110*	*05/17/13 17:10*	*05/21/13 19:03*	*1*
Phenol-d5	*50*		*31 - 110*	*05/17/13 17:10*	*05/21/13 19:03*	*1*
Nitrobenzene-d5	*52*		*30 - 115*	*05/17/13 17:10*	*05/21/13 19:03*	*1*
2-Fluorobiphenyl	*52*		*30 - 119*	*05/17/13 17:10*	*05/21/13 19:03*	*1*
2,4,6-Tribromophenol	*81*		*35 - 137*	*05/17/13 17:10*	*05/21/13 19:03*	*1*
Terphenyl-d14	*65*		*36 - 134*	*05/17/13 17:10*	*05/21/13 19:03*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Arsenic	4.5		0.58	0.11	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Barium	82	B	0.58	0.062	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Beryllium	0.66		0.23	0.020	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Boron	7.8	B	2.9	0.12	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Cadmium	0.35	B	0.12	0.015	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Calcium	7800	B	12	3.1	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Chromium	15	^	0.58	0.067	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Cobalt	5.7		0.29	0.021	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Copper	19		0.58	0.051	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Iron	16000		12	4.7	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Lead	26		0.29	0.086	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Magnesium	5400	B	5.8	1.2	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Manganese	190		0.58	0.031	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Nickel	15	B	0.58	0.057	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Potassium	1100		29	1.7	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Selenium	<0.58		0.58	0.20	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Sodium	1000		58	7.7	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Thallium	0.42	J	0.58	0.24	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Vanadium	20		0.29	0.043	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1
Zinc	50	B	1.2	0.23	mg/Kg	☼	05/17/13 14:00	05/18/13 23:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.29		0.20	0.20	mg/L		05/31/13 08:35	06/01/13 07:33	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/31/13 08:35	06/01/13 07:33	1
Manganese	0.47		0.025	0.010	mg/L		05/31/13 08:35	06/01/13 07:33	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B07-1
Date Collected: 05/16/13 13:00
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-37
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.29	J	0.50	0.010	mg/L		05/21/13 08:46	05/22/13 00:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/21/13 08:46	05/22/13 00:33	1
Boron	1.4		0.10	0.050	mg/L		05/21/13 08:46	05/22/13 00:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:46	05/22/13 00:33	1
Chromium	0.083		0.025	0.010	mg/L		05/21/13 08:46	05/22/13 00:33	1
Cobalt	0.017	J	0.025	0.0050	mg/L		05/21/13 08:46	05/22/13 00:33	1
Iron	64		0.20	0.20	mg/L		05/21/13 08:46	05/22/13 00:33	1
Lead	0.074		0.0075	0.0050	mg/L		05/21/13 08:46	05/22/13 00:33	1
Manganese	0.22		0.025	0.010	mg/L		05/21/13 08:46	05/22/13 00:33	1
Nickel	0.056		0.025	0.010	mg/L		05/21/13 08:46	05/22/13 00:33	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:46	05/22/13 00:33	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:46	05/22/13 00:33	1
Zinc	0.22		0.10	0.020	mg/L		05/21/13 08:46	05/22/13 00:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:46	05/28/13 18:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:46	05/28/13 18:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018	J	0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062		0.020	0.0092	mg/Kg	☼	05/20/13 15:20	05/21/13 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.72		0.200	0.200	SU			05/23/13 16:21	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B07-2
Date Collected: 05/16/13 13:05
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-38
Matrix: Solid
Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0022	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Vinyl acetate	<0.0050		0.0050	0.00079	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	05/16/13 13:05	05/21/13 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 122*	*05/16/13 13:05*	*05/21/13 04:10*	*1*
Dibromofluoromethane	*89*		*75 - 120*	*05/16/13 13:05*	*05/21/13 04:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 134*	*05/16/13 13:05*	*05/21/13 04:10*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*	*05/16/13 13:05*	*05/21/13 04:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.069	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.065	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
1,3-Dichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
1,4-Dichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B07-2
Date Collected: 05/16/13 13:05
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-38
Matrix: Solid
Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
2-Methylphenol	<0.22		0.22	0.058	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.049	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.056	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Hexachloroethane	<0.22		0.22	0.047	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
2-Chlorophenol	<0.22		0.22	0.063	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Nitrobenzene	<0.043		0.043	0.014	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.048	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.050	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Isophorone	<0.22		0.22	0.049	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
2,4-Dimethylphenol	<0.43		0.43	0.14	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Hexachlorobutadiene	<0.22		0.22	0.057	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Naphthalene	<0.043		0.043	0.0084	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
2,4-Dichlorophenol	<0.43		0.43	0.13	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
4-Chloroaniline	<0.88		0.88	0.13	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
2,4,6-Trichlorophenol	<0.43		0.43	0.055	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
2,4,5-Trichlorophenol	<0.43		0.43	0.13	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Hexachlorocyclopentadiene	<0.88		0.88	0.20	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
2-Methylnaphthalene	<0.22		0.22	0.057	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
2-Nitroaniline	<0.22		0.22	0.079	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
2-Chloronaphthalene	<0.22		0.22	0.049	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
4-Chloro-3-methylphenol	<0.43		0.43	0.21	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
2,6-Dinitrotoluene	<0.22		0.22	0.052	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
2-Nitrophenol	<0.43		0.43	0.069	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
3-Nitroaniline	<0.43		0.43	0.084	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Dimethyl phthalate	<0.22		0.22	0.055	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
2,4-Dinitrophenol	<0.88	*	0.88	0.22	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Acenaphthylene	<0.043		0.043	0.010	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
2,4-Dinitrotoluene	<0.22		0.22	0.067	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Acenaphthene	<0.043		0.043	0.013	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Dibenzofuran	<0.22		0.22	0.053	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
4-Nitrophenol	<0.88		0.88	0.24	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Fluorene	<0.043		0.043	0.010	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
4-Nitroaniline	<0.43		0.43	0.090	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.049	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Hexachlorobenzene	<0.088		0.088	0.0086	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.069	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Pentachlorophenol	<0.88		0.88	0.22	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
N-Nitrosodiphenylamine	<0.22		0.22	0.059	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
4,6-Dinitro-2-methylphenol	<0.43		0.43	0.11	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Phenanthrene	<0.043		0.043	0.018	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Anthracene	<0.043		0.043	0.010	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Carbazole	<0.22		0.22	0.062	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Di-n-butyl phthalate	<0.22		0.22	0.055	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Fluoranthene	<0.043		0.043	0.018	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Pyrene	<0.043		0.043	0.016	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Butyl benzyl phthalate	<0.22		0.22	0.055	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Benzo[a]anthracene	<0.043		0.043	0.0092	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1

Client Sample ID: 2181-2-B07-2
Date Collected: 05/16/13 13:05
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-38
Matrix: Solid
Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.043		0.043	0.0099	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.037	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.058	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Di-n-octyl phthalate	<0.22		0.22	0.089	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Benzo[b]fluoranthene	<0.043		0.043	0.0085	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Benzo[k]fluoranthene	<0.043		0.043	0.010	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Benzo[a]pyrene	<0.043		0.043	0.0080	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.015	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Dibenz(a,h)anthracene	<0.043		0.043	0.012	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
Benzo[g,h,i]perylene	<0.043		0.043	0.015	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1
3 & 4 Methylphenol	<0.22		0.22	0.083	mg/Kg	☼	05/17/13 17:10	05/21/13 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*32*		*30 - 110*	*05/17/13 17:10*	*05/21/13 19:24*	*1*
Phenol-d5	*40*		*31 - 110*	*05/17/13 17:10*	*05/21/13 19:24*	*1*
Nitrobenzene-d5	*37*		*30 - 115*	*05/17/13 17:10*	*05/21/13 19:24*	*1*
2-Fluorobiphenyl	*38*		*30 - 119*	*05/17/13 17:10*	*05/21/13 19:24*	*1*
2,4,6-Tribromophenol	*63*		*35 - 137*	*05/17/13 17:10*	*05/21/13 19:24*	*1*
Terphenyl-d14	*51*		*36 - 134*	*05/17/13 17:10*	*05/21/13 19:24*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.54	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Arsenic	**3.5**		0.67	0.13	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Barium	**49**	**B**	0.67	0.071	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Beryllium	**0.63**		0.27	0.024	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Boron	**8.5**	**B**	3.3	0.14	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Cadmium	**0.27**	**B**	0.13	0.017	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Calcium	**7500**	**B**	13	3.6	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Chromium	**14**	**^**	0.67	0.077	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Cobalt	**6.5**		0.33	0.024	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Copper	**24**		0.67	0.059	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Iron	**11000**		13	5.5	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Lead	**12**		0.33	0.099	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Magnesium	**4900**	**B**	6.7	1.4	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Manganese	**76**		0.67	0.036	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Nickel	**23**	**B**	0.67	0.065	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Potassium	**1100**		33	2.0	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Selenium	**0.86**		0.67	0.24	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Silver	<0.33		0.33	0.024	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Sodium	**620**		67	8.9	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Thallium	**0.37**	**J**	0.67	0.28	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Vanadium	**17**		0.33	0.049	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1
Zinc	**42**	**B**	1.3	0.27	mg/Kg	☼	05/17/13 14:00	05/18/13 23:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/31/13 08:35	06/01/13 07:39	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/31/13 08:35	06/01/13 07:39	1
Manganese	**0.75**		0.025	0.010	mg/L		05/31/13 08:35	06/01/13 07:39	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-3

Client Sample ID: 2181-2-B07-2
Date Collected: 05/16/13 13:05
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-38
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J	0.50	0.010	mg/L		05/21/13 08:46	05/22/13 00:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/21/13 08:46	05/22/13 00:37	1
Boron	1.4		0.10	0.050	mg/L		05/21/13 08:46	05/22/13 00:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:46	05/22/13 00:37	1
Chromium	0.071		0.025	0.010	mg/L		05/21/13 08:46	05/22/13 00:37	1
Cobalt	0.027		0.025	0.0050	mg/L		05/21/13 08:46	05/22/13 00:37	1
Iron	100		0.20	0.20	mg/L		05/21/13 08:46	05/22/13 00:37	1
Lead	0.068		0.0075	0.0050	mg/L		05/21/13 08:46	05/22/13 00:37	1
Manganese	0.24		0.025	0.010	mg/L		05/21/13 08:46	05/22/13 00:37	1
Nickel	0.064		0.025	0.010	mg/L		05/21/13 08:46	05/22/13 00:37	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:46	05/22/13 00:37	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:46	05/22/13 00:37	1
Zinc	0.18		0.10	0.020	mg/L		05/21/13 08:46	05/22/13 00:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:46	05/28/13 18:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:46	05/28/13 18:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018	J	0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.022	0.010	mg/Kg	☼	05/20/13 15:20	05/21/13 13:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.01		0.200	0.200	SU			05/23/13 16:17	1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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

ANDREWS ENGINEERING INC

500-57144 COC

Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711
217-787-2334
Contact: Colleen Grey
email: cgrey@andrews-eng.com

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

Project Name: I 55 COOK CO
Project No.: IDOT 2013-006
TAT: ☑ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other
Sampler:

COC No.: 1 of 5
Lab Job No.: 500-57144
Sample Temp: (5.1) (4.8) (4.4)

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If ~~Total metal result exceeds MAC AND~~ SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
1	2181-10-B01	5/16	8:50	S	✓	✓					✓	✓	✓	✓						0-2'
2	2181-11-B01	5/16	8:40	S	✓	✓					✓	✓	✓	✓						0-2'
3	2181-2-B10-1	5/16	11:55	S	✓	✓					✓	✓	✓	✓						0-5'
4	2181-2-B10-2	5/16	12:00	S	✓	✓					✓	✓	✓	✓						5-10'
5	2181-2-B09-1	5/16	12:05	S	✓	✓					✓	✓	✓	✓						0-5'
6	2181-2-B09-2	5/16	12:10	S	✓	✓					✓	✓	✓	✓						5-10'
7	2181-2-B08-1	5/16	12:30	S	✓	✓					✓	✓	✓	✓						0-5'
8	2181-2-B08-2	5/16	12:45	S	✓	✓					✓	✓	✓	✓						5-10'
9	2181-17-G01	5/16	1:45	W	✓	✓					✓		✓							9.1'
10	2181-14-G01	5/16	2:00	W	✓	✓					✓		✓							4.8'
11	2181-15-G01	5/16	2:15	W	✓	✓					✓		✓							18.0'
12	TRIP BLANK 4	5/16	—	W	✓															—

Relinquished by:	5/16/13 15:45	Received by:	Date/Time 5-16-13/1545
Relinquished by:	Date/Time 5-16-13/1705	Received by:	Date/Time 5/17/13 0700
Relinquished by:	Date/Time	Received by:	Date/Time

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: I 55 Cook Co Project No.: IDOT 2013-006 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:**

COC No.: 2 of 5

Lab Job No.: 500-57144

Sample Temp:

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If ~~Total metal result exceeds MAC AND~~ SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Matrix Key:

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization				Comments
13	2181-2-B12-1	5/16	11:25	S	✓	✓					✓	✓	✓	✓					0-5'
14	2181-2-B12-2	5/16	11:30	S	✓	✓					✓	✓	✓	✓					5-10'
15	2181-2-B13-1	5/16	11:15	S	✓	✓					✓	✓	✓	✓					0-5'
16	2181-2-B13-2	5/16	11:20	S	✓	✓					✓	✓	✓	✓					5-10'
17	2181-2-B14-1	11:00 ↔	5/16	S	✓	✓					✓	✓	✓	✓					0-5'
18	2181-2-B14-2 DUP	11:10 ↔	5/16	S	✓	✓					✓	✓	✓	✓					5-10'
19	2181-2-B14-2	11:05 ↔	5/16	S	✓	✓					✓	✓	✓	✓					5-10'
20	2181-2-G01	5/16	7:30	W	✓	✓					✓		✓						4.6'
21	2181-2-B15-1	5/16	10:45	S	✓	✓					✓	✓	✓	✓					0-5'
22	2181-2-B15-2	5/16	10:50	S	✓	✓					✓	✓	✓	✓					5-10'
23	2181-2-B11-1	5/16	11:35	S	✓	✓					✓	✓	✓	✓					0-5'
24	2181-2-B11-2	5/16	11:40	S	✓	✓					✓	✓	✓	✓					5-10'

Relinquished by:	Date/Time: 5/16/13 15:45	Received by:	Date/Time: 5-16-13 1545
Relinquished by:	Date/Time: 5-16-13/1705	Received by:	Date/Time: 5/17/13 0700
Relinquished by:	Date/Time	Received by:	Date/Time

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING INC

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: I 55 Cook Co Project No.: IDOT 2013-006 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:**

COC No.: 5 of 5

Lab Job No.: 500-57144

Sample Temp:

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If ~~Total metal result exceeds MAC AND~~ SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Matrix Key:

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
31	2181-12-B02-1	5/16	8:15	S	✓	✓					✓	✓	✓	✓						0-5'
32	2181-12-G01	5/16	2:45	W	✓	✓					✓		✓							7.8'
33	2181-12-B02-2	5/16	8:20		✓	✓					✓	✓	✓	✓						5-10'
34	TRIP BLANK 2	5/16	—	W	✓															—
35	2181-12-B03-1	5/16	8:25	S	✓	✓					✓	✓	✓	✓						0-5'
36	2181-12-B03-2	5/16	8:30	S	✓	✓					✓	✓	✓	✓						5-10'
37	2181-2-B07-1	5/16	1:00	S	✓	✓					✓	✓	✓	✓						0-5'
38	2181-2-B07-2	5/16	1:05	S	✓	✓					✓	✓	✓	✓						5-10'

Relinquished by:	Date/Time 5/16/13 15:45	Received by:	Date/Time 5-16-13/1545
Relinquished by:	Date/Time 5-17-13/705	Received by:	Date/Time 5/17/13 0700
Relinquished by:	Date/Time	Received by:	Date/Time

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-57045-4
Client Project/Site: IDOT - IL 43 - WO 006
Revision: 1

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

Attn: Mike Nelson

Authorized for release by:
5/31/2013 3:28:42 PM

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

Client Sample ID: 2181-2-B01-1
Date Collected: 05/15/13 15:05
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-18
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	05/15/13 15:05	05/20/13 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 122*	*05/15/13 15:05*	*05/20/13 12:55*	*1*
Dibromofluoromethane	*100*		*75 - 120*	*05/15/13 15:05*	*05/20/13 12:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*05/15/13 15:05*	*05/20/13 12:55*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*	*05/15/13 15:05*	*05/20/13 12:55*	*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	☼	05/16/13 17:06	05/23/13 04:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B01-1
Date Collected: 05/15/13 15:05
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-18
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
2,4-Dinitrophenol	<0.81	*	0.81	0.21	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
4-Nitroaniline	<0.40	*	0.40	0.083	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1

Client Sample ID: 2181-2-B01-1
Date Collected: 05/15/13 15:05
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-18
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	05/16/13 17:06	05/23/13 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*45*		*30 - 110*	*05/16/13 17:06*	*05/23/13 04:53*	*1*
Phenol-d5	*48*		*31 - 110*	*05/16/13 17:06*	*05/23/13 04:53*	*1*
Nitrobenzene-d5	*45*		*30 - 115*	*05/16/13 17:06*	*05/23/13 04:53*	*1*
2-Fluorobiphenyl	*42*		*30 - 119*	*05/16/13 17:06*	*05/23/13 04:53*	*1*
2,4,6-Tribromophenol	*36*		*35 - 137*	*05/16/13 17:06*	*05/23/13 04:53*	*1*
Terphenyl-d14	*49*		*36 - 134*	*05/16/13 17:06*	*05/23/13 04:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Arsenic	**3.9**		0.57	0.11	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Barium	**53**	**B**	0.57	0.061	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Beryllium	**0.57**		0.23	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Boron	**4.0**		2.9	0.12	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Cadmium	**0.080**	**J**	0.11	0.014	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Calcium	**18000**	**B**	12	3.3	mg/Kg	☼	05/24/13 15:00	05/25/13 18:56	1
Chromium	**14**		0.57	0.066	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Cobalt	**6.6**		0.29	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Copper	**17**		0.57	0.051	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Iron	**14000**		11	4.7	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Lead	**28**		0.29	0.085	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Magnesium	**14000**	**B**	6.2	1.3	mg/Kg	☼	05/24/13 15:00	05/25/13 18:56	1
Manganese	**210**		0.57	0.031	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Nickel	**16**		0.57	0.056	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Potassium	**930**		29	1.7	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Sodium	**290**		57	7.6	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Thallium	**0.28**	**J**	0.57	0.24	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Vanadium	**17**		0.29	0.042	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1
Zinc	**46**	**B**	1.1	0.23	mg/Kg	☼	05/16/13 09:12	05/24/13 07:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/30/13 09:30	05/30/13 22:20	1
Chromium	<0.025		0.025	0.010	mg/L		05/30/13 09:30	05/30/13 22:20	1
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/30/13 22:20	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B01-1
Date Collected: 05/15/13 15:05
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-18
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		05/30/13 09:30	05/30/13 22:20	1
Manganese	**0.92**		0.025	0.010	mg/L		05/30/13 09:30	05/30/13 22:20	1
Nickel	<0.025		0.025	0.010	mg/L		05/30/13 09:30	05/30/13 22:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.39**	**J**	0.50	0.010	mg/L		05/17/13 08:45	05/24/13 03:47	1
Beryllium	**0.0046**		0.0040	0.0040	mg/L		05/17/13 08:45	05/24/13 03:47	1
Boron	**0.51**		0.10	0.050	mg/L		05/17/13 08:45	05/24/13 03:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 08:45	05/24/13 03:47	1
Chromium	**0.14**		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:47	1
Cobalt	**0.049**		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:47	1
Iron	**130**		0.20	0.20	mg/L		05/17/13 08:45	05/24/13 03:47	1
Lead	**0.091**		0.0075	0.0050	mg/L		05/17/13 08:45	05/24/13 03:47	1
Manganese	**0.47**		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:47	1
Nickel	**0.13**		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:47	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 08:45	05/24/13 03:47	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:47	1
Zinc	**0.39**		0.10	0.020	mg/L		05/17/13 08:45	05/24/13 03:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 08:45	05/28/13 16:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 08:45	05/28/13 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00038**		0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 12:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.018	0.0084	mg/Kg	☼	05/16/13 15:20	05/20/13 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.91**		0.200	0.200	SU			05/21/13 14:18	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B01-1 DUP
Date Collected: 05/15/13 15:10
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-19
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1
Xylenes, Total	<0.0092		0.0092	0.00041	mg/Kg	☼	05/15/13 15:10	05/20/13 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*	*05/15/13 15:10*	*05/20/13 13:18*	*1*
Dibromofluoromethane	*100*		*75 - 120*	*05/15/13 15:10*	*05/20/13 13:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*05/15/13 15:10*	*05/20/13 13:18*	*1*
Toluene-d8 (Surr)	*109*		*75 - 122*	*05/15/13 15:10*	*05/20/13 13:18*	*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	☼	05/16/13 17:06	05/23/13 05:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B01-1 DUP
Date Collected: 05/15/13 15:10
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-19
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
2,4,6-Trichlorophenol	<0.38		0.38	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
2,4-Dinitrophenol	<0.76	*	0.76	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
4-Nitroaniline	<0.38	*	0.38	0.078	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Fluoranthene	<0.038		0.038	0.015	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1

Client Sample ID: 2181-2-B01-1 DUP
Date Collected: 05/15/13 15:10
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-19
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0085	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Benzo[b]fluoranthene	<0.038		0.038	0.0073	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	05/16/13 17:06	05/23/13 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*30*		*30 - 110*	*05/16/13 17:06*	*05/23/13 05:14*	*1*
Phenol-d5	*33*		*31 - 110*	*05/16/13 17:06*	*05/23/13 05:14*	*1*
Nitrobenzene-d5	*14*	*X*	*30 - 115*	*05/16/13 17:06*	*05/23/13 05:14*	*1*
2-Fluorobiphenyl	*34*		*30 - 119*	*05/16/13 17:06*	*05/23/13 05:14*	*1*
2,4,6-Tribromophenol	*50*		*35 - 137*	*05/16/13 17:06*	*05/23/13 05:14*	*1*
Terphenyl-d14	*46*		*36 - 134*	*05/16/13 17:06*	*05/23/13 05:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Arsenic	**8.2**		0.56	0.11	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Barium	**48**	**B**	0.56	0.060	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Beryllium	**0.74**		0.22	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Boron	**5.0**		2.8	0.12	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Cadmium	<0.11		0.11	0.014	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Calcium	**18000**	**B**	11	3.1	mg/Kg	☼	05/24/13 15:00	05/25/13 19:02	1
Chromium	**18**		0.56	0.065	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Cobalt	**12**		0.28	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Copper	**19**		0.56	0.049	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Iron	**22000**		11	4.6	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Lead	**16**		0.28	0.083	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Magnesium	**14000**	**B**	5.7	1.2	mg/Kg	☼	05/24/13 15:00	05/25/13 19:02	1
Manganese	**220**		0.56	0.030	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Nickel	**22**		0.56	0.055	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Potassium	**1500**		28	1.7	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Sodium	**300**		56	7.5	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Thallium	**0.26**	**J**	0.56	0.24	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Vanadium	**23**		0.28	0.041	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1
Zinc	**52**	**B**	1.1	0.23	mg/Kg	☼	05/16/13 09:12	05/24/13 07:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/30/13 22:26	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/30/13 09:30	05/30/13 22:26	1
Manganese	**0.55**		0.025	0.010	mg/L		05/30/13 09:30	05/30/13 22:26	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B01-1 DUP
Date Collected: 05/15/13 15:10
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.18	J	0.50	0.010	mg/L		05/17/13 08:45	05/24/13 03:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 08:45	05/24/13 03:52	1
Boron	0.63		0.10	0.050	mg/L		05/17/13 08:45	05/24/13 03:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 08:45	05/24/13 03:52	1
Chromium	0.053		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:52	1
Cobalt	0.013	J	0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:52	1
Iron	46		0.20	0.20	mg/L		05/17/13 08:45	05/24/13 03:52	1
Lead	0.035		0.0075	0.0050	mg/L		05/17/13 08:45	05/24/13 03:52	1
Manganese	0.17		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:52	1
Nickel	0.042		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:52	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 08:45	05/24/13 03:52	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:52	1
Zinc	0.15		0.10	0.020	mg/L		05/17/13 08:45	05/24/13 03:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 08:45	05/28/13 16:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 08:45	05/28/13 16:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 12:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.0091	mg/Kg	☼	05/16/13 15:20	05/20/13 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.18		0.200	0.200	SU			05/21/13 14:21	1

Client Sample ID: 2181-2-B01-2
Date Collected: 05/15/13 15:15
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-20
Matrix: Solid
Percent Solids: 52.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.050**		0.0092	0.0040	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Benzene	<0.0092		0.0092	0.0013	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Bromodichloromethane	<0.0092		0.0092	0.0016	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Bromoform	<0.0092		0.0092	0.0021	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Bromomethane	<0.0092		0.0092	0.0028	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
2-Butanone (MEK)	**0.011**		0.0092	0.0033	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Carbon disulfide	**0.0063**	**J**	0.0092	0.0014	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Carbon tetrachloride	<0.0092		0.0092	0.0017	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Chlorobenzene	<0.0092		0.0092	0.00093	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Chloroethane	<0.0092		0.0092	0.0025	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Chloroform	<0.0092		0.0092	0.0011	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Chloromethane	<0.0092		0.0092	0.0019	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
cis-1,2-Dichloroethene	<0.0092		0.0092	0.0013	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
cis-1,3-Dichloropropene	<0.0092		0.0092	0.0012	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Dibromochloromethane	<0.0092		0.0092	0.0016	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
1,1-Dichloroethane	<0.0092		0.0092	0.0015	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
1,2-Dichloroethane	<0.0092		0.0092	0.0014	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
1,1-Dichloroethene	<0.0092		0.0092	0.0015	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
1,2-Dichloropropane	<0.0092		0.0092	0.0014	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
1,3-Dichloropropene, Total	<0.0092		0.0092	0.0012	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Ethylbenzene	<0.0092		0.0092	0.0019	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
2-Hexanone	<0.0092		0.0092	0.0026	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Methylene Chloride	<0.0092		0.0092	0.0025	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
4-Methyl-2-pentanone (MIBK)	<0.0092		0.0092	0.0024	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Methyl tert-butyl ether	<0.0092		0.0092	0.0015	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Styrene	<0.0092		0.0092	0.0012	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
1,1,2,2-Tetrachloroethane	<0.0092		0.0092	0.0019	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Tetrachloroethene	<0.0092		0.0092	0.0014	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Toluene	<0.0092		0.0092	0.0013	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
trans-1,2-Dichloroethene	<0.0092		0.0092	0.0013	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
trans-1,3-Dichloropropene	<0.0092		0.0092	0.0016	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
1,1,1-Trichloroethane	<0.0092		0.0092	0.0014	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
1,1,2-Trichloroethane	<0.0092		0.0092	0.0013	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Trichloroethene	<0.0092		0.0092	0.0015	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Vinyl acetate	<0.0092		0.0092	0.0014	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Vinyl chloride	<0.0092		0.0092	0.0019	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1
Xylenes, Total	<0.018		0.018	0.00083	mg/Kg	☼	05/15/13 15:15	05/20/13 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*	*05/15/13 15:15*	*05/20/13 13:42*	*1*
Dibromofluoromethane	*102*		*75 - 120*	*05/15/13 15:15*	*05/20/13 13:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*05/15/13 15:15*	*05/20/13 13:42*	*1*
Toluene-d8 (Surr)	*108*		*75 - 122*	*05/15/13 15:15*	*05/20/13 13:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.31		0.31	0.098	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Bis(2-chloroethyl)ether	<0.31		0.31	0.091	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
1,3-Dichlorobenzene	<0.31		0.31	0.065	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
1,4-Dichlorobenzene	<0.31		0.31	0.065	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B01-2
Date Collected: 05/15/13 15:15
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-20
Matrix: Solid
Percent Solids: 52.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.31		0.31	0.067	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
2-Methylphenol	<0.31		0.31	0.082	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
2,2'-oxybis[1-chloropropane]	<0.31		0.31	0.068	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
N-Nitrosodi-n-propylamine	<0.31		0.31	0.078	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Hexachloroethane	<0.31		0.31	0.066	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
2-Chlorophenol	<0.31		0.31	0.088	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Nitrobenzene	<0.061		0.061	0.019	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Bis(2-chloroethoxy)methane	<0.31		0.31	0.068	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
1,2,4-Trichlorobenzene	<0.31		0.31	0.070	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Isophorone	<0.31		0.31	0.069	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
2,4-Dimethylphenol	<0.61		0.61	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Hexachlorobutadiene	<0.31		0.31	0.081	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Naphthalene	<0.061		0.061	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
2,4-Dichlorophenol	<0.61		0.61	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
4-Chloroaniline	<1.2		1.2	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
2,4,6-Trichlorophenol	<0.61		0.61	0.077	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
2,4,5-Trichlorophenol	<0.61		0.61	0.18	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Hexachlorocyclopentadiene	<1.2		1.2	0.29	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
2-Methylnaphthalene	<0.31		0.31	0.080	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
2-Nitroaniline	<0.31		0.31	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
2-Chloronaphthalene	<0.31		0.31	0.069	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
4-Chloro-3-methylphenol	<0.61		0.61	0.29	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
2,6-Dinitrotoluene	<0.31		0.31	0.073	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
2-Nitrophenol	<0.61		0.61	0.097	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
3-Nitroaniline	<0.61		0.61	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Dimethyl phthalate	<0.31		0.31	0.077	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
2,4-Dinitrophenol	<1.2	*	1.2	0.32	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Acenaphthylene	<0.061		0.061	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
2,4-Dinitrotoluene	<0.31		0.31	0.094	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Acenaphthene	<0.061		0.061	0.018	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Dibenzofuran	<0.31		0.31	0.074	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
4-Nitrophenol	<1.2		1.2	0.33	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Fluorene	<0.061		0.061	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
4-Nitroaniline	<0.61	*	0.61	0.13	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
4-Bromophenyl phenyl ether	<0.31		0.31	0.069	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Hexachlorobenzene	<0.12		0.12	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Diethyl phthalate	<0.31		0.31	0.10	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
4-Chlorophenyl phenyl ether	<0.31		0.31	0.097	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Pentachlorophenol	<1.2		1.2	0.31	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
N-Nitrosodiphenylamine	<0.31		0.31	0.083	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
4,6-Dinitro-2-methylphenol	<0.61		0.61	0.15	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Phenanthrene	<0.061		0.061	0.026	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Anthracene	<0.061		0.061	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Carbazole	<0.31		0.31	0.087	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Di-n-butyl phthalate	<0.31		0.31	0.078	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Fluoranthene	<0.061		0.061	0.025	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Pyrene	<0.061		0.061	0.022	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Butyl benzyl phthalate	<0.31		0.31	0.077	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Benzo[a]anthracene	<0.061		0.061	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1

Client Sample ID: 2181-2-B01-2
Date Collected: 05/15/13 15:15
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-20
Matrix: Solid
Percent Solids: 52.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.061		0.061	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
3,3'-Dichlorobenzidine	<0.31		0.31	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Bis(2-ethylhexyl) phthalate	<0.31		0.31	0.082	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Di-n-octyl phthalate	<0.31		0.31	0.13	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Benzo[b]fluoranthene	<0.061		0.061	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Benzo[k]fluoranthene	<0.061		0.061	0.015	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Benzo[a]pyrene	<0.061		0.061	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Indeno[1,2,3-cd]pyrene	<0.061		0.061	0.021	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Dibenz(a,h)anthracene	<0.061		0.061	0.017	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
Benzo[g,h,i]perylene	<0.061		0.061	0.021	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1
3 & 4 Methylphenol	<0.31		0.31	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 06:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*30*		*30 - 110*	*05/16/13 17:06*	*05/23/13 06:15*	*1*
Phenol-d5	*34*		*31 - 110*	*05/16/13 17:06*	*05/23/13 06:15*	*1*
Nitrobenzene-d5	*30*		*30 - 115*	*05/16/13 17:06*	*05/23/13 06:15*	*1*
2-Fluorobiphenyl	*31*		*30 - 119*	*05/16/13 17:06*	*05/23/13 06:15*	*1*
2,4,6-Tribromophenol	*47*		*35 - 137*	*05/16/13 17:06*	*05/23/13 06:15*	*1*
Terphenyl-d14	*38*		*36 - 134*	*05/16/13 17:06*	*05/23/13 06:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.8		1.8	0.72	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Arsenic	**9.9**		0.90	0.18	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Barium	**33**	**B**	0.90	0.096	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Beryllium	**0.57**		0.36	0.032	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Boron	**13**		4.5	0.19	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Cadmium	**0.12**	**J**	0.18	0.023	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Calcium	**55000**	**B**	18	4.9	mg/Kg	☼	05/24/13 15:00	05/25/13 19:08	1
Chromium	**13**		0.90	0.10	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Cobalt	**11**		0.45	0.032	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Copper	**24**		0.90	0.080	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Iron	**31000**		18	7.4	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Lead	**21**		0.45	0.13	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Magnesium	**31000**	**B**	9.0	1.8	mg/Kg	☼	05/24/13 15:00	05/25/13 19:08	1
Manganese	**230**		0.90	0.049	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Nickel	**22**		0.90	0.088	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Potassium	**1200**		45	2.7	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Selenium	**0.63**	**J**	0.90	0.32	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Silver	<0.45		0.45	0.033	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Sodium	**1100**		90	12	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Thallium	**0.50**	**J**	0.90	0.38	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Vanadium	**19**		0.45	0.067	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1
Zinc	**60**	**B**	1.8	0.36	mg/Kg	☼	05/16/13 09:12	05/24/13 07:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.048**	**J**	0.50	0.010	mg/L		05/17/13 13:00	05/22/13 05:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 13:00	05/22/13 05:25	1
Boron	**0.68**		0.10	0.050	mg/L		05/17/13 13:00	05/22/13 05:25	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B01-2
Date Collected: 05/15/13 15:15
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-20
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 13:00	05/22/13 05:25	1
Chromium	**0.020**	**J**	0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:25	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 05:25	1
Iron	**2.5**		0.20	0.20	mg/L		05/17/13 13:00	05/22/13 05:25	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/17/13 13:00	05/22/13 05:25	1
Manganese	**0.052**		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:25	1
Nickel	**0.015**	**J**	0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:25	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 13:00	05/22/13 05:25	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 05:25	1
Zinc	**0.025**	**J B**	0.10	0.020	mg/L		05/17/13 13:00	05/22/13 05:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0031**	**J**	0.0060	0.0030	mg/L		05/17/13 13:00	05/28/13 16:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 13:00	05/28/13 16:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000037**	**J B**	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.062**		0.028	0.013	mg/Kg	☼	05/16/13 15:20	05/20/13 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.45**		0.200	0.200	SU			05/21/13 14:23	1

Client Sample ID: 2181-2-B02-1
Date Collected: 05/15/13 14:55
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-21
Matrix: Solid
Percent Solids: 82.7

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	☼	05/15/13 14:55	05/20/13 14:06	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00060	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00060	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Styrene	<0.0045		0.0045	0.00060	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Toluene	<0.0045		0.0045	0.00064	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	05/15/13 14:55	05/20/13 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*	*05/15/13 14:55*	*05/20/13 14:06*	*1*
Dibromofluoromethane	*100*		*75 - 120*	*05/15/13 14:55*	*05/20/13 14:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*05/15/13 14:55*	*05/20/13 14:06*	*1*
Toluene-d8 (Surr)	*108*		*75 - 122*	*05/15/13 14:55*	*05/20/13 14:06*	*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	☼	05/16/13 17:06	05/23/13 05:34	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B02-1
Date Collected: 05/15/13 14:55
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-21
Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
2,4-Dimethylphenol	<0.40		0.40	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
2,4-Dinitrophenol	<0.80	*	0.80	0.20	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
4-Nitroaniline	<0.40	*	0.40	0.082	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Hexachlorobenzene	<0.080		0.080	0.0079	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Benzo[a]anthracene	**0.0092**	**J**	0.040	0.0084	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1

Client Sample ID: 2181-2-B02-1
Date Collected: 05/15/13 14:55
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-21
Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.011**	**J**	0.040	0.0090	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Benzo[b]fluoranthene	**0.015**	**J**	0.040	0.0077	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Benzo[a]pyrene	**0.0091**	**J**	0.040	0.0073	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
Benzo[g,h,i]perylene	**0.013**	**J**	0.040	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	05/16/13 17:06	05/23/13 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*54*		*30 - 110*	*05/16/13 17:06*	*05/23/13 05:34*	*1*
Phenol-d5	*56*		*31 - 110*	*05/16/13 17:06*	*05/23/13 05:34*	*1*
Nitrobenzene-d5	*54*		*30 - 115*	*05/16/13 17:06*	*05/23/13 05:34*	*1*
2-Fluorobiphenyl	*55*		*30 - 119*	*05/16/13 17:06*	*05/23/13 05:34*	*1*
2,4,6-Tribromophenol	*68*		*35 - 137*	*05/16/13 17:06*	*05/23/13 05:34*	*1*
Terphenyl-d14	*61*		*36 - 134*	*05/16/13 17:06*	*05/23/13 05:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Arsenic	**5.7**		0.56	0.11	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Barium	**31**	**B**	0.56	0.060	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Beryllium	**0.76**		0.22	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Boron	**4.9**		2.8	0.12	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Cadmium	<0.11		0.11	0.014	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Calcium	**7900**	**B**	11	3.0	mg/Kg	☼	05/24/13 15:00	05/25/13 19:14	1
Chromium	**18**		0.56	0.065	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Cobalt	**8.0**		0.28	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Copper	**19**		0.56	0.049	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Iron	**25000**		11	4.6	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Lead	**16**		0.28	0.083	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Magnesium	**7600**	**B**	5.5	1.1	mg/Kg	☼	05/24/13 15:00	05/25/13 19:14	1
Manganese	**160**		0.56	0.030	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Nickel	**21**		0.56	0.055	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Potassium	**1100**		28	1.7	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Sodium	**120**		56	7.5	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Thallium	**0.41**	**J**	0.56	0.23	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Vanadium	**25**		0.28	0.041	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1
Zinc	**55**	**B**	1.1	0.22	mg/Kg	☼	05/16/13 09:12	05/24/13 07:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/30/13 22:32	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B02-1
Date Collected: 05/15/13 14:55
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-21
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.077**	**J**	0.50	0.010	mg/L		05/17/13 13:00	05/22/13 05:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 13:00	05/22/13 05:30	1
Boron	**1.8**		0.10	0.050	mg/L		05/17/13 13:00	05/22/13 05:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 13:00	05/22/13 05:30	1
Chromium	**0.014**	**J**	0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:30	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 05:30	1
Iron	**7.4**		0.20	0.20	mg/L		05/17/13 13:00	05/22/13 05:30	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/17/13 13:00	05/22/13 05:30	1
Manganese	**0.035**		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:30	1
Nickel	<0.025		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:30	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 13:00	05/22/13 05:30	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 05:30	1
Zinc	**0.047**	**J B**	0.10	0.020	mg/L		05/17/13 13:00	05/22/13 05:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 13:00	05/28/13 16:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 13:00	05/28/13 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000047**	**J B**	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.056**		0.018	0.0084	mg/Kg	☼	05/16/13 15:20	05/20/13 10:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.81**		0.200	0.200	SU			05/21/13 14:26	1

Client Sample ID: 2181-2-B02-2
Date Collected: 05/15/13 15:00
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-22
Matrix: Solid
Percent Solids: 73.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.022**		0.0062	0.0027	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Benzene	<0.0062		0.0062	0.00086	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Bromodichloromethane	<0.0062		0.0062	0.0011	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Bromoform	<0.0062		0.0062	0.0014	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Bromomethane	<0.0062		0.0062	0.0019	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
2-Butanone (MEK)	**0.0062**		0.0062	0.0023	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Carbon disulfide	<0.0062		0.0062	0.00093	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Carbon tetrachloride	<0.0062		0.0062	0.0011	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Chlorobenzene	<0.0062		0.0062	0.00063	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Chloroethane	<0.0062		0.0062	0.0017	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Chloroform	<0.0062		0.0062	0.00072	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Chloromethane	<0.0062		0.0062	0.0013	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
cis-1,2-Dichloroethene	<0.0062		0.0062	0.00088	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
cis-1,3-Dichloropropene	<0.0062		0.0062	0.00082	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Dibromochloromethane	<0.0062		0.0062	0.0011	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
1,1-Dichloroethane	<0.0062		0.0062	0.00099	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
1,2-Dichloroethane	<0.0062		0.0062	0.00093	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
1,1-Dichloroethene	<0.0062		0.0062	0.0010	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
1,2-Dichloropropane	<0.0062		0.0062	0.00095	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
1,3-Dichloropropene, Total	<0.0062		0.0062	0.00082	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Ethylbenzene	<0.0062		0.0062	0.0013	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
2-Hexanone	<0.0062		0.0062	0.0018	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Methylene Chloride	<0.0062		0.0062	0.0017	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
4-Methyl-2-pentanone (MIBK)	<0.0062		0.0062	0.0016	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Methyl tert-butyl ether	<0.0062		0.0062	0.0010	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Styrene	<0.0062		0.0062	0.00082	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
1,1,2,2-Tetrachloroethane	<0.0062		0.0062	0.0013	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Tetrachloroethene	<0.0062		0.0062	0.00095	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Toluene	<0.0062		0.0062	0.00087	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
trans-1,2-Dichloroethene	<0.0062		0.0062	0.00086	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
trans-1,3-Dichloropropene	<0.0062		0.0062	0.0011	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
1,1,1-Trichloroethane	<0.0062		0.0062	0.00093	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
1,1,2-Trichloroethane	<0.0062		0.0062	0.00085	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Trichloroethene	<0.0062		0.0062	0.0010	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Vinyl acetate	<0.0062		0.0062	0.00098	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Vinyl chloride	<0.0062		0.0062	0.0013	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1
Xylenes, Total	<0.012		0.012	0.00057	mg/Kg	☼	05/15/13 15:00	05/20/13 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*	*05/15/13 15:00*	*05/20/13 14:30*	*1*
Dibromofluoromethane	*103*		*75 - 120*	*05/15/13 15:00*	*05/20/13 14:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*05/15/13 15:00*	*05/20/13 14:30*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*	*05/15/13 15:00*	*05/20/13 14:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.069	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.065	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
1,3-Dichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
1,4-Dichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B02-2
Date Collected: 05/15/13 15:00
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-22
Matrix: Solid
Percent Solids: 73.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
2-Methylphenol	<0.22		0.22	0.058	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.055	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Hexachloroethane	<0.22		0.22	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
2-Chlorophenol	<0.22		0.22	0.062	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Nitrobenzene	<0.043		0.043	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Isophorone	<0.22		0.22	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
2,4-Dimethylphenol	<0.43		0.43	0.14	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Hexachlorobutadiene	<0.22		0.22	0.057	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Naphthalene	<0.043		0.043	0.0084	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
2,4-Dichlorophenol	<0.43		0.43	0.13	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
4-Chloroaniline	<0.88		0.88	0.13	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
2,4,6-Trichlorophenol	<0.43		0.43	0.055	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
2,4,5-Trichlorophenol	<0.43		0.43	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Hexachlorocyclopentadiene	<0.88		0.88	0.20	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
2-Methylnaphthalene	<0.22		0.22	0.057	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
2-Nitroaniline	<0.22		0.22	0.079	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
2-Chloronaphthalene	<0.22		0.22	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
4-Chloro-3-methylphenol	<0.43		0.43	0.21	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
2,6-Dinitrotoluene	<0.22		0.22	0.052	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
2-Nitrophenol	<0.43		0.43	0.068	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
3-Nitroaniline	<0.43		0.43	0.084	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Dimethyl phthalate	<0.22		0.22	0.055	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
2,4-Dinitrophenol	<0.88	*	0.88	0.22	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Acenaphthylene	<0.043		0.043	0.010	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
2,4-Dinitrotoluene	<0.22		0.22	0.067	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Acenaphthene	<0.043		0.043	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Dibenzofuran	<0.22		0.22	0.052	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
4-Nitrophenol	<0.88		0.88	0.24	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Fluorene	<0.043		0.043	0.0099	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
4-Nitroaniline	<0.43	*	0.43	0.089	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Hexachlorobenzene	<0.088		0.088	0.0086	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.069	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Pentachlorophenol	<0.88		0.88	0.22	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
N-Nitrosodiphenylamine	<0.22		0.22	0.059	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
4,6-Dinitro-2-methylphenol	<0.43		0.43	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Phenanthrene	<0.043		0.043	0.018	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Anthracene	<0.043		0.043	0.010	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Carbazole	<0.22		0.22	0.061	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Di-n-butyl phthalate	<0.22		0.22	0.055	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Fluoranthene	<0.043		0.043	0.018	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Pyrene	<0.043		0.043	0.016	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Butyl benzyl phthalate	<0.22		0.22	0.055	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Benzo[a]anthracene	<0.043		0.043	0.0091	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1

Client Sample ID: 2181-2-B02-2
Date Collected: 05/15/13 15:00
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-22
Matrix: Solid
Percent Solids: 73.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.043		0.043	0.0099	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.036	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.058	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Di-n-octyl phthalate	<0.22		0.22	0.089	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Benzo[b]fluoranthene	<0.043		0.043	0.0085	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Benzo[k]fluoranthene	<0.043		0.043	0.010	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Benzo[a]pyrene	<0.043		0.043	0.0080	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.015	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Dibenz(a,h)anthracene	<0.043		0.043	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
Benzo[g,h,i]perylene	<0.043		0.043	0.015	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1
3 & 4 Methylphenol	<0.22		0.22	0.083	mg/Kg	☼	05/16/13 17:06	05/23/13 05:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*39*		*30 - 110*	*05/16/13 17:06*	*05/23/13 05:54*	*1*
Phenol-d5	*44*		*31 - 110*	*05/16/13 17:06*	*05/23/13 05:54*	*1*
Nitrobenzene-d5	*41*		*30 - 115*	*05/16/13 17:06*	*05/23/13 05:54*	*1*
2-Fluorobiphenyl	*43*		*30 - 119*	*05/16/13 17:06*	*05/23/13 05:54*	*1*
2,4,6-Tribromophenol	*59*		*35 - 137*	*05/16/13 17:06*	*05/23/13 05:54*	*1*
Terphenyl-d14	*48*		*36 - 134*	*05/16/13 17:06*	*05/23/13 05:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.53	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Arsenic	**6.2**		0.66	0.13	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Barium	**33**	**B**	0.66	0.071	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Beryllium	**0.50**		0.26	0.023	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Boron	**8.4**		3.3	0.14	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Cadmium	**0.20**		0.13	0.017	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Calcium	**37000**	**B**	14	3.7	mg/Kg	☼	05/24/13 15:00	05/25/13 19:20	1
Chromium	**11**		0.66	0.077	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Cobalt	**8.5**		0.33	0.024	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Copper	**19**		0.66	0.059	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Iron	**12000**		13	5.4	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Lead	**19**		0.33	0.099	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Magnesium	**22000**	**B**	6.8	1.4	mg/Kg	☼	05/24/13 15:00	05/25/13 19:20	1
Manganese	**330**		0.66	0.036	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Nickel	**18**		0.66	0.065	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Potassium	**1100**		33	2.0	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Selenium	<0.66		0.66	0.24	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Silver	<0.33		0.33	0.024	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Sodium	**580**		66	8.9	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Thallium	<0.66		0.66	0.28	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Vanadium	**22**		0.33	0.049	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1
Zinc	**43**	**B**	1.3	0.27	mg/Kg	☼	05/16/13 09:12	05/24/13 07:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/30/13 22:38	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/30/13 09:30	05/30/13 22:38	1
Manganese	**1.2**		0.025	0.010	mg/L		05/30/13 09:30	05/30/13 22:38	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B02-2
Date Collected: 05/15/13 15:00
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-22
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.24	J	0.50	0.010	mg/L		05/17/13 13:00	05/22/13 05:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 13:00	05/22/13 05:34	1
Boron	1.5		0.10	0.050	mg/L		05/17/13 13:00	05/22/13 05:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 13:00	05/22/13 05:34	1
Chromium	0.077		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:34	1
Cobalt	0.027		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 05:34	1
Iron	68		0.20	0.20	mg/L		05/17/13 13:00	05/22/13 05:34	1
Lead	0.068		0.0075	0.0050	mg/L		05/17/13 13:00	05/22/13 05:34	1
Manganese	0.25		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:34	1
Nickel	0.070		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:34	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 13:00	05/22/13 05:34	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 05:34	1
Zinc	0.19	B	0.10	0.020	mg/L		05/17/13 13:00	05/22/13 05:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 13:00	05/28/13 16:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 13:00	05/28/13 16:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	B	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.022	0.010	mg/Kg	☼	05/16/13 15:20	05/20/13 10:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.73		0.200	0.200	SU			05/21/13 13:49	1

Client Sample ID: 2181-2-B03-1
Date Collected: 05/15/13 14:40
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-23
Matrix: Solid
Percent Solids: 81.8

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	☼	05/15/13 14:40	05/20/13 14:54	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
2-Butanone (MEK)	<0.0051		0.0051	0.0019	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Carbon disulfide	<0.0051		0.0051	0.00077	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00073	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
1,1-Dichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00077	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Trichloroethene	<0.0051		0.0051	0.00085	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Vinyl acetate	<0.0051		0.0051	0.00081	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	05/15/13 14:40	05/20/13 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*	*05/15/13 14:40*	*05/20/13 14:54*	*1*
Dibromofluoromethane	*99*		*75 - 120*	*05/15/13 14:40*	*05/20/13 14:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*05/15/13 14:40*	*05/20/13 14:54*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*	*05/15/13 14:40*	*05/20/13 14:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B03-1
Date Collected: 05/15/13 14:40
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-23
Matrix: Solid
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Pyrene	**0.014**	**J**	0.039	0.014	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Benzo[a]anthracene	**0.012**	**J**	0.039	0.0083	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1

Client Sample ID: 2181-2-B03-1
Date Collected: 05/15/13 14:40
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-23
Matrix: Solid
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.039	0.0089	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Benzo[b]fluoranthene	0.030	J	0.039	0.0077	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Benzo[k]fluoranthene	0.015	J	0.039	0.0094	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Benzo[a]pyrene	0.027	J	0.039	0.0072	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Indeno[1,2,3-cd]pyrene	0.017	J	0.039	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Dibenz(a,h)anthracene	0.013	J	0.039	0.011	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
Benzo[g,h,i]perylene	0.025	J	0.039	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	05/20/13 07:24	05/30/13 10:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*40*		*30 - 110*	*05/20/13 07:24*	*05/30/13 10:16*	*1*
Phenol-d5	*43*		*31 - 110*	*05/20/13 07:24*	*05/30/13 10:16*	*1*
Nitrobenzene-d5	*44*		*30 - 115*	*05/20/13 07:24*	*05/30/13 10:16*	*1*
2-Fluorobiphenyl	*44*		*30 - 119*	*05/20/13 07:24*	*05/30/13 10:16*	*1*
2,4,6-Tribromophenol	*63*		*35 - 137*	*05/20/13 07:24*	*05/30/13 10:16*	*1*
Terphenyl-d14	*52*		*36 - 134*	*05/20/13 07:24*	*05/30/13 10:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Arsenic	1.6		0.57	0.11	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Barium	51	B	0.57	0.061	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Beryllium	0.74		0.23	0.020	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Boron	5.6		2.8	0.12	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Cadmium	0.14		0.11	0.014	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Calcium	5400	B	11	3.1	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Chromium	17		0.57	0.066	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Cobalt	6.1		0.28	0.020	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Copper	19		0.57	0.050	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Iron	12000		11	4.7	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Lead	13		0.28	0.084	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Magnesium	4800	B	5.7	1.2	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Manganese	120	B	0.57	0.031	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Nickel	19		0.57	0.056	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Potassium	960		28	1.7	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Sodium	150		57	7.6	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Vanadium	16		0.28	0.042	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1
Zinc	46		1.1	0.23	mg/Kg	☼	05/16/13 09:40	05/24/13 02:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/30/13 22:44	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B03-1
Date Collected: 05/15/13 14:40
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.10**	**J**	0.50	0.010	mg/L		05/17/13 13:00	05/22/13 05:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 13:00	05/22/13 05:38	1
Boron	**1.8**		0.10	0.050	mg/L		05/17/13 13:00	05/22/13 05:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 13:00	05/22/13 05:38	1
Chromium	**0.017**	**J**	0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:38	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 05:38	1
Iron	**10**		0.20	0.20	mg/L		05/17/13 13:00	05/22/13 05:38	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/17/13 13:00	05/22/13 05:38	1
Manganese	**0.065**		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:38	1
Nickel	<0.025		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:38	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 13:00	05/22/13 05:38	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 05:38	1
Zinc	**0.053**	**J B**	0.10	0.020	mg/L		05/17/13 13:00	05/22/13 05:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 13:00	05/28/13 16:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 13:00	05/28/13 16:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00029**	**B**	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 12:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.019	0.0087	mg/Kg	☼	05/16/13 15:20	05/20/13 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.41**		0.200	0.200	SU			05/21/13 13:51	1

Client Sample ID: 2181-2-B03-2
Date Collected: 05/15/13 14:45
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-24
Matrix: Solid
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00082	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Vinyl acetate	<0.0049		0.0049	0.00078	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	05/15/13 14:45	05/20/13 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*	*05/15/13 14:45*	*05/20/13 15:18*	*1*
Dibromofluoromethane	*96*		*75 - 120*	*05/15/13 14:45*	*05/20/13 15:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*05/15/13 14:45*	*05/20/13 15:18*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*	*05/15/13 14:45*	*05/20/13 15:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.067	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B03-2
Date Collected: 05/15/13 14:45
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-24
Matrix: Solid
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
2-Methylphenol	<0.21		0.21	0.056	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Naphthalene	<0.042		0.042	0.0081	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
4-Chloroaniline	<0.85		0.85	0.13	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
2,4,6-Trichlorophenol	<0.42		0.42	0.053	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Hexachlorocyclopentadiene	<0.85		0.85	0.20	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
2-Methylnaphthalene	<0.21		0.21	0.055	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
2-Nitroaniline	<0.21		0.21	0.076	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
2-Nitrophenol	<0.42		0.42	0.066	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
3-Nitroaniline	<0.42		0.42	0.081	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
2,4-Dinitrophenol	<0.85		0.85	0.22	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Acenaphthylene	<0.042		0.042	0.0097	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Dibenzofuran	<0.21		0.21	0.051	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
4-Nitrophenol	<0.85		0.85	0.23	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Fluorene	<0.042		0.042	0.0096	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
4-Nitroaniline	<0.42		0.42	0.086	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Hexachlorobenzene	<0.085		0.085	0.0083	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Pentachlorophenol	<0.85		0.85	0.21	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
N-Nitrosodiphenylamine	<0.21		0.21	0.057	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Phenanthrene	<0.042		0.042	0.018	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Anthracene	<0.042		0.042	0.0099	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Fluoranthene	**0.023**	**J**	0.042	0.017	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Pyrene	**0.020**	**J**	0.042	0.015	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Butyl benzyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Benzo[a]anthracene	**0.012**	**J**	0.042	0.0088	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1

Client Sample ID: 2181-2-B03-2
Date Collected: 05/15/13 14:45
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-24
Matrix: Solid
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.021**	**J**	0.042	0.0095	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.056	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Di-n-octyl phthalate	<0.21		0.21	0.086	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Benzo[b]fluoranthene	**0.023**	**J**	0.042	0.0082	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Benzo[k]fluoranthene	**0.016**	**J**	0.042	0.010	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Benzo[a]pyrene	**0.016**	**J**	0.042	0.0077	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Indeno[1,2,3-cd]pyrene	**0.017**	**J**	0.042	0.014	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Dibenz(a,h)anthracene	<0.042		0.042	0.012	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
Benzo[g,h,i]perylene	**0.025**	**J**	0.042	0.014	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1
3 & 4 Methylphenol	<0.21		0.21	0.080	mg/Kg	☼	05/20/13 07:24	05/30/13 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*36*		*30 - 110*	*05/20/13 07:24*	*05/30/13 14:41*	*1*
Phenol-d5	*40*		*31 - 110*	*05/20/13 07:24*	*05/30/13 14:41*	*1*
Nitrobenzene-d5	*37*		*30 - 115*	*05/20/13 07:24*	*05/30/13 14:41*	*1*
2-Fluorobiphenyl	*46*		*30 - 119*	*05/20/13 07:24*	*05/30/13 14:41*	*1*
2,4,6-Tribromophenol	*68*		*35 - 137*	*05/20/13 07:24*	*05/30/13 14:41*	*1*
Terphenyl-d14	*46*		*36 - 134*	*05/20/13 07:24*	*05/30/13 14:41*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Arsenic	**8.2**		0.60	0.12	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Barium	**40**	**B**	0.60	0.064	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Beryllium	**0.57**		0.24	0.021	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Boron	**9.2**		3.0	0.13	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Cadmium	**0.14**		0.12	0.015	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Calcium	**21000**	**B**	12	3.2	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Chromium	**13**		0.60	0.070	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Cobalt	**7.4**		0.30	0.021	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Copper	**23**		0.60	0.053	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Iron	**25000**		12	4.9	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Lead	**18**		0.30	0.089	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Magnesium	**14000**	**B**	6.0	1.2	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Manganese	**210**	**B**	0.60	0.033	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Nickel	**19**		0.60	0.059	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Potassium	**1100**		30	1.8	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Selenium	**0.28**	**J**	0.60	0.21	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Sodium	**610**		60	8.0	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Thallium	<0.60		0.60	0.25	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Vanadium	**19**		0.30	0.044	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1
Zinc	**48**		1.2	0.24	mg/Kg	☼	05/16/13 09:40	05/24/13 02:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/30/13 22:51	1
Lead	**0.0057**	**J**	0.0075	0.0050	mg/L		05/30/13 09:30	05/30/13 22:51	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B03-2
Date Collected: 05/15/13 14:45
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-24
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.081	J	0.50	0.010	mg/L		05/17/13 13:00	05/22/13 05:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 13:00	05/22/13 05:50	1
Boron	1.7		0.10	0.050	mg/L		05/17/13 13:00	05/22/13 05:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 13:00	05/22/13 05:50	1
Chromium	0.018	J	0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:50	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 05:50	1
Iron	13		0.20	0.20	mg/L		05/17/13 13:00	05/22/13 05:50	1
Lead	0.011		0.0075	0.0050	mg/L		05/17/13 13:00	05/22/13 05:50	1
Manganese	0.057		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:50	1
Nickel	<0.025		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:50	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 13:00	05/22/13 05:50	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 05:50	1
Zinc	0.047	J B	0.10	0.020	mg/L		05/17/13 13:00	05/22/13 05:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 13:00	05/28/13 16:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 13:00	05/28/13 16:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000051	J B	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 12:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.0089	mg/Kg	☼	05/16/13 15:20	05/20/13 10:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.51		0.200	0.200	SU			05/21/13 14:28	1

Client Sample ID: 2181-2-B04-1
Date Collected: 05/15/13 14:20
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-25
Matrix: Solid
Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0054		0.0054	0.0023	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Benzene	<0.0054		0.0054	0.00074	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Bromodichloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
2-Butanone (MEK)	<0.0054		0.0054	0.0020	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Carbon disulfide	<0.0054		0.0054	0.00081	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Carbon tetrachloride	<0.0054		0.0054	0.00098	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Chlorobenzene	<0.0054		0.0054	0.00055	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Chloroethane	<0.0054		0.0054	0.0015	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00071	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Dibromochloromethane	<0.0054		0.0054	0.00094	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
1,1-Dichloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
1,1-Dichloroethene	<0.0054		0.0054	0.00087	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
1,2-Dichloropropane	<0.0054		0.0054	0.00082	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00071	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
2-Hexanone	<0.0054		0.0054	0.0016	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00089	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Styrene	<0.0054		0.0054	0.00071	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Tetrachloroethene	<0.0054		0.0054	0.00082	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Toluene	<0.0054		0.0054	0.00076	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00074	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00097	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00081	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00074	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Trichloroethene	<0.0054		0.0054	0.00089	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Vinyl acetate	<0.0054		0.0054	0.00085	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	05/15/13 14:20	05/20/13 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*	*05/15/13 14:20*	*05/20/13 15:41*	*1*
Dibromofluoromethane	*103*		*75 - 120*	*05/15/13 14:20*	*05/20/13 15:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*	*05/15/13 14:20*	*05/20/13 15:41*	*1*
Toluene-d8 (Surr)	*108*		*75 - 122*	*05/15/13 14:20*	*05/20/13 15:41*	*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	☼	05/20/13 07:24	05/30/13 11:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B04-1
Date Collected: 05/15/13 14:20
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-25
Matrix: Solid
Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.052	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.099	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Anthracene	<0.040		0.040	0.0096	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1

Client Sample ID: 2181-2-B04-1
Date Collected: 05/15/13 14:20
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-25
Matrix: Solid
Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.0094**	**J**	0.040	0.0092	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Benzo[b]fluoranthene	**0.0098**	**J**	0.040	0.0079	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Benzo[k]fluoranthene	**0.012**	**J**	0.040	0.0097	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Benzo[a]pyrene	**0.0094**	**J**	0.040	0.0074	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	05/20/13 07:24	05/30/13 11:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*56*		*30 - 110*	*05/20/13 07:24*	*05/30/13 11:17*	*1*
Phenol-d5	*58*		*31 - 110*	*05/20/13 07:24*	*05/30/13 11:17*	*1*
Nitrobenzene-d5	*56*		*30 - 115*	*05/20/13 07:24*	*05/30/13 11:17*	*1*
2-Fluorobiphenyl	*57*		*30 - 119*	*05/20/13 07:24*	*05/30/13 11:17*	*1*
2,4,6-Tribromophenol	*81*		*35 - 137*	*05/20/13 07:24*	*05/30/13 11:17*	*1*
Terphenyl-d14	*64*		*36 - 134*	*05/20/13 07:24*	*05/30/13 11:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Arsenic	**3.0**		0.60	0.12	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Barium	**76**	**B**	0.60	0.064	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Beryllium	**0.75**		0.24	0.021	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Boron	**5.9**		3.0	0.13	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Cadmium	**0.11**	**J**	0.12	0.015	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Calcium	**8400**	**B**	12	3.3	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Chromium	**17**		0.60	0.070	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Cobalt	**8.0**		0.30	0.021	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Copper	**21**		0.60	0.053	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Iron	**17000**		12	4.9	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Lead	**15**		0.30	0.090	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Magnesium	**6300**	**B**	6.0	1.2	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Manganese	**160**	**B**	0.60	0.033	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Nickel	**20**		0.60	0.059	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Potassium	**920**		30	1.8	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Sodium	**100**		60	8.1	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Thallium	<0.60		0.60	0.25	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Vanadium	**22**		0.30	0.044	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1
Zinc	**49**		1.2	0.24	mg/Kg	☼	05/16/13 09:40	05/24/13 02:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/30/13 22:57	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/30/13 09:30	05/30/13 22:57	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B04-1
Date Collected: 05/15/13 14:20
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-25
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.14	J	0.50	0.010	mg/L		05/17/13 13:00	05/22/13 05:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 13:00	05/22/13 05:54	1
Boron	1.7		0.10	0.050	mg/L		05/17/13 13:00	05/22/13 05:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 13:00	05/22/13 05:54	1
Chromium	0.028		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:54	1
Cobalt	0.0089	J	0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 05:54	1
Iron	35		0.20	0.20	mg/L		05/17/13 13:00	05/22/13 05:54	1
Lead	0.019		0.0075	0.0050	mg/L		05/17/13 13:00	05/22/13 05:54	1
Manganese	0.14		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:54	1
Nickel	0.021	J	0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:54	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 13:00	05/22/13 05:54	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 05:54	1
Zinc	0.083	J B	0.10	0.020	mg/L		05/17/13 13:00	05/22/13 05:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 13:00	05/28/13 16:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 13:00	05/28/13 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000064	J B	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 12:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0091	mg/Kg	☼	05/16/13 15:20	05/20/13 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.15		0.200	0.200	SU			05/21/13 14:30	1

Client Sample ID: 2181-2-B04-2
Date Collected: 05/15/13 14:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-26
Matrix: Solid
Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.32		0.32	0.084	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Benzene	<0.016		0.016	0.0048	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Bromodichloromethane	<0.13		0.13	0.022	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Bromoform	<0.13		0.13	0.029	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Bromomethane	<0.13		0.13	0.044	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
2-Butanone (MEK)	<0.32		0.32	0.095	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Carbon disulfide	<0.32		0.32	0.028	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Carbon tetrachloride	<0.065		0.065	0.017	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Chlorobenzene	<0.065		0.065	0.0093	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Chloroethane	<0.13		0.13	0.028	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Chloroform	<0.065		0.065	0.013	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Chloromethane	<0.13		0.13	0.030	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
cis-1,2-Dichloroethene	<0.065		0.065	0.0080	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
cis-1,3-Dichloropropene	<0.065		0.065	0.012	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Dibromochloromethane	<0.13		0.13	0.022	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
1,1-Dichloroethane	<0.065		0.065	0.012	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
1,2-Dichloroethane	<0.065		0.065	0.018	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
1,1-Dichloroethene	<0.065		0.065	0.020	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
1,2-Dichloropropane	<0.065		0.065	0.013	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
1,3-Dichloropropene, Total	<0.065		0.065	0.012	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Ethylbenzene	<0.016		0.016	0.0082	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
2-Hexanone	<0.32		0.32	0.036	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Methylene Chloride	<0.32		0.32	0.044	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
4-Methyl-2-pentanone (MIBK)	<0.32		0.32	0.022	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Methyl tert-butyl ether	<0.13		0.13	0.028	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Styrene	<0.065		0.065	0.0064	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
1,1,2,2-Tetrachloroethane	<0.065		0.065	0.015	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Tetrachloroethene	<0.065		0.065	0.011	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Toluene	<0.016		0.016	0.0074	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
trans-1,2-Dichloroethene	<0.065		0.065	0.016	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
trans-1,3-Dichloropropene	<0.065		0.065	0.013	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
1,1,1-Trichloroethane	<0.065		0.065	0.013	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
1,1,2-Trichloroethane	<0.065		0.065	0.018	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Trichloroethene	<0.032		0.032	0.012	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Vinyl acetate	<0.13		0.13	0.022	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Vinyl chloride	<0.016		0.016	0.0067	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50
Xylenes, Total	<0.032		0.032	0.0044	mg/Kg	☼	05/15/13 14:30	05/22/13 17:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*	*05/15/13 14:30*	*05/22/13 17:35*	*50*
Dibromofluoromethane	*96*		*75 - 120*	*05/15/13 14:30*	*05/22/13 17:35*	*50*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 125*	*05/15/13 14:30*	*05/22/13 17:35*	*50*
Toluene-d8 (Surr)	*91*		*75 - 120*	*05/15/13 14:30*	*05/22/13 17:35*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.068	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
1,3-Dichlorobenzene	<0.22		0.22	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
1,4-Dichlorobenzene	<0.22		0.22	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B04-2
Date Collected: 05/15/13 14:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-26
Matrix: Solid
Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
2-Methylphenol	<0.22		0.22	0.057	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.055	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Hexachloroethane	<0.22		0.22	0.046	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
2-Chlorophenol	<0.22		0.22	0.061	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Nitrobenzene	<0.043		0.043	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
2,4-Dimethylphenol	<0.43		0.43	0.13	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Hexachlorobutadiene	<0.22		0.22	0.056	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Naphthalene	<0.043		0.043	0.0083	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
2,4-Dichlorophenol	<0.43		0.43	0.13	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
4-Chloroaniline	<0.87		0.87	0.13	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
2,4,6-Trichlorophenol	<0.43		0.43	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
2,4,5-Trichlorophenol	<0.43		0.43	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Hexachlorocyclopentadiene	<0.87		0.87	0.20	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
2-Methylnaphthalene	<0.22		0.22	0.056	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
2-Nitroaniline	<0.22		0.22	0.077	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
4-Chloro-3-methylphenol	<0.43		0.43	0.21	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
2,6-Dinitrotoluene	<0.22		0.22	0.051	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
2-Nitrophenol	<0.43		0.43	0.067	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
3-Nitroaniline	<0.43		0.43	0.083	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Dimethyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
2,4-Dinitrophenol	<0.87		0.87	0.22	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Acenaphthylene	<0.043		0.043	0.0099	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
2,4-Dinitrotoluene	<0.22		0.22	0.066	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Acenaphthene	<0.043		0.043	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Dibenzofuran	<0.22		0.22	0.052	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
4-Nitrophenol	<0.87		0.87	0.23	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Fluorene	<0.043		0.043	0.0098	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
4-Nitroaniline	<0.43		0.43	0.088	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Hexachlorobenzene	<0.087		0.087	0.0085	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Diethyl phthalate	<0.22		0.22	0.072	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.068	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Pentachlorophenol	<0.87		0.87	0.22	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
N-Nitrosodiphenylamine	<0.22		0.22	0.058	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
4,6-Dinitro-2-methylphenol	<0.43		0.43	0.10	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Phenanthrene	**0.026**	**J**	0.043	0.018	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Anthracene	<0.043		0.043	0.010	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Carbazole	<0.22		0.22	0.060	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Di-n-butyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Fluoranthene	<0.043		0.043	0.018	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Pyrene	<0.043		0.043	0.016	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Butyl benzyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Benzo[a]anthracene	<0.043		0.043	0.0090	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1

Client Sample ID: 2181-2-B04-2
Date Collected: 05/15/13 14:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-26
Matrix: Solid
Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.015**	**J**	0.043	0.0097	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.036	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.057	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Di-n-octyl phthalate	<0.22		0.22	0.087	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Benzo[b]fluoranthene	<0.043		0.043	0.0084	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Benzo[k]fluoranthene	<0.043		0.043	0.010	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Benzo[a]pyrene	<0.043		0.043	0.0078	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.014	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Dibenz(a,h)anthracene	<0.043		0.043	0.012	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
Benzo[g,h,i]perylene	**0.018**	**J**	0.043	0.014	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1
3 & 4 Methylphenol	<0.22		0.22	0.081	mg/Kg	☼	05/20/13 07:24	05/30/13 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*42*		*30 - 110*	*05/20/13 07:24*	*05/30/13 11:37*	*1*
Phenol-d5	*48*		*31 - 110*	*05/20/13 07:24*	*05/30/13 11:37*	*1*
Nitrobenzene-d5	*41*		*30 - 115*	*05/20/13 07:24*	*05/30/13 11:37*	*1*
2-Fluorobiphenyl	*46*		*30 - 119*	*05/20/13 07:24*	*05/30/13 11:37*	*1*
2,4,6-Tribromophenol	*72*		*35 - 137*	*05/20/13 07:24*	*05/30/13 11:37*	*1*
Terphenyl-d14	*53*		*36 - 134*	*05/20/13 07:24*	*05/30/13 11:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Arsenic	**4.4**		0.62	0.12	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Barium	**70**	**B**	0.62	0.067	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Beryllium	**0.62**		0.25	0.022	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Boron	**6.5**		3.1	0.13	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Cadmium	**0.23**		0.12	0.016	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Calcium	**10000**	**B**	12	3.4	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Chromium	**15**		0.62	0.072	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Cobalt	**9.3**		0.31	0.022	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Copper	**26**		0.62	0.055	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Iron	**18000**		12	5.1	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Lead	**19**		0.31	0.093	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Magnesium	**6700**	**B**	6.2	1.3	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Manganese	**130**	**B**	0.62	0.034	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Nickel	**22**		0.62	0.061	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Potassium	**970**		31	1.9	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Selenium	**4.2**		0.62	0.22	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Sodium	**390**		62	8.4	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Thallium	<0.62		0.62	0.26	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Vanadium	**22**		0.31	0.046	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1
Zinc	**48**		1.2	0.25	mg/Kg	☼	05/16/13 09:40	05/24/13 02:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/30/13 23:03	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/30/13 09:30	05/30/13 23:03	1
Manganese	**0.96**		0.025	0.010	mg/L		05/30/13 09:30	05/30/13 23:03	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B04-2
Date Collected: 05/15/13 14:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-26
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.18	J	0.50	0.010	mg/L		05/17/13 13:00	05/22/13 05:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 13:00	05/22/13 05:58	1
Boron	1.6		0.10	0.050	mg/L		05/17/13 13:00	05/22/13 05:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 13:00	05/22/13 05:58	1
Chromium	0.045		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:58	1
Cobalt	0.016	J	0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 05:58	1
Iron	50		0.20	0.20	mg/L		05/17/13 13:00	05/22/13 05:58	1
Lead	0.033		0.0075	0.0050	mg/L		05/17/13 13:00	05/22/13 05:58	1
Manganese	0.25		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:58	1
Nickel	0.037		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 05:58	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 13:00	05/22/13 05:58	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 05:58	1
Zinc	0.12	B	0.10	0.020	mg/L		05/17/13 13:00	05/22/13 05:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 13:00	05/28/13 16:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 13:00	05/28/13 16:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000097	J B	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.020	0.0095	mg/Kg	☼	05/16/13 15:20	05/20/13 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.59		0.200	0.200	SU			05/21/13 14:33	1

Client Sample ID: 2181-2-B05-1
Date Collected: 05/15/13 14:00
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-27
Matrix: Solid
Percent Solids: 74.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
2-Butanone (MEK)	<0.0051		0.0051	0.0019	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
1,1-Dichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	05/15/13 14:00	05/20/13 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 122*	*05/15/13 14:00*	*05/20/13 16:05*	*1*
Dibromofluoromethane	*99*		*75 - 120*	*05/15/13 14:00*	*05/20/13 16:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*05/15/13 14:00*	*05/20/13 16:05*	*1*
Toluene-d8 (Surr)	*103*		*75 - 122*	*05/15/13 14:00*	*05/20/13 16:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.068	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.063	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
1,3-Dichlorobenzene	<0.22		0.22	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
1,4-Dichlorobenzene	<0.22		0.22	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B05-1
Date Collected: 05/15/13 14:00
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-27
Matrix: Solid
Percent Solids: 74.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
2-Methylphenol	<0.22		0.22	0.057	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Hexachloroethane	<0.22		0.22	0.046	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
2-Chlorophenol	<0.22		0.22	0.061	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Nitrobenzene	<0.043		0.043	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
2,4-Dimethylphenol	<0.43		0.43	0.13	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Hexachlorobutadiene	<0.22		0.22	0.056	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Naphthalene	<0.043		0.043	0.0082	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
2,4-Dichlorophenol	<0.43		0.43	0.13	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
4-Chloroaniline	<0.86		0.86	0.13	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
2,4,6-Trichlorophenol	<0.43		0.43	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
2,4,5-Trichlorophenol	<0.43		0.43	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Hexachlorocyclopentadiene	<0.86		0.86	0.20	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
2-Methylnaphthalene	<0.22		0.22	0.056	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
2-Nitroaniline	<0.22		0.22	0.077	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
4-Chloro-3-methylphenol	<0.43		0.43	0.20	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
2,6-Dinitrotoluene	<0.22		0.22	0.051	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
2-Nitrophenol	<0.43		0.43	0.067	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
3-Nitroaniline	<0.43		0.43	0.083	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Dimethyl phthalate	<0.22		0.22	0.053	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
2,4-Dinitrophenol	<0.86		0.86	0.22	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Acenaphthylene	<0.043		0.043	0.0098	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
2,4-Dinitrotoluene	<0.22		0.22	0.066	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Acenaphthene	<0.043		0.043	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Dibenzofuran	<0.22		0.22	0.051	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
4-Nitrophenol	<0.86		0.86	0.23	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Fluorene	<0.043		0.043	0.0097	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
4-Nitroaniline	<0.43		0.43	0.088	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Hexachlorobenzene	<0.086		0.086	0.0084	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Diethyl phthalate	<0.22		0.22	0.071	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.067	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Pentachlorophenol	<0.86		0.86	0.22	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
N-Nitrosodiphenylamine	<0.22		0.22	0.058	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
4,6-Dinitro-2-methylphenol	<0.43		0.43	0.10	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Phenanthrene	<0.043		0.043	0.018	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Anthracene	<0.043		0.043	0.010	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Carbazole	<0.22		0.22	0.060	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Di-n-butyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Fluoranthene	<0.043		0.043	0.018	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Pyrene	<0.043		0.043	0.015	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Butyl benzyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Benzo[a]anthracene	<0.043		0.043	0.0090	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1

Client Sample ID: 2181-2-B05-1
Date Collected: 05/15/13 14:00
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-27
Matrix: Solid
Percent Solids: 74.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.043		0.043	0.0097	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.036	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.057	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Di-n-octyl phthalate	<0.22		0.22	0.087	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Benzo[b]fluoranthene	**0.011**	**J**	0.043	0.0083	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Benzo[k]fluoranthene	<0.043		0.043	0.010	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Benzo[a]pyrene	<0.043		0.043	0.0078	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.014	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Dibenz(a,h)anthracene	<0.043		0.043	0.012	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
Benzo[g,h,i]perylene	**0.014**	**J**	0.043	0.014	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1
3 & 4 Methylphenol	<0.22		0.22	0.081	mg/Kg	☼	05/20/13 07:24	05/30/13 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*49*		*30 - 110*	*05/20/13 07:24*	*05/30/13 11:57*	*1*
Phenol-d5	*54*		*31 - 110*	*05/20/13 07:24*	*05/30/13 11:57*	*1*
Nitrobenzene-d5	*47*		*30 - 115*	*05/20/13 07:24*	*05/30/13 11:57*	*1*
2-Fluorobiphenyl	*55*		*30 - 119*	*05/20/13 07:24*	*05/30/13 11:57*	*1*
2,4,6-Tribromophenol	*85*		*35 - 137*	*05/20/13 07:24*	*05/30/13 11:57*	*1*
Terphenyl-d14	*60*		*36 - 134*	*05/20/13 07:24*	*05/30/13 11:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.51	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Arsenic	**2.9**		0.63	0.13	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Barium	**44**	**B**	0.63	0.068	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Beryllium	**0.73**		0.25	0.022	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Boron	**7.9**		3.2	0.13	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Cadmium	**0.31**		0.13	0.016	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Calcium	**19000**	**B**	13	3.4	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Chromium	**17**		0.63	0.073	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Cobalt	**7.6**		0.32	0.023	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Copper	**58**		0.63	0.056	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Iron	**14000**		13	5.2	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Lead	**14**		0.32	0.094	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Magnesium	**13000**	**B**	6.3	1.3	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Manganese	**180**	**B**	0.63	0.034	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Nickel	**25**		0.63	0.062	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Potassium	**1200**		32	1.9	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Selenium	**4.0**		0.63	0.22	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Sodium	**190**		63	8.5	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Thallium	<0.63		0.63	0.27	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Vanadium	**19**		0.32	0.047	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1
Zinc	**52**		1.3	0.25	mg/Kg	☼	05/16/13 09:40	05/24/13 02:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/30/13 23:36	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/30/13 09:30	05/30/13 23:36	1
Manganese	**0.89**		0.025	0.010	mg/L		05/30/13 09:30	05/30/13 23:36	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B05-1
Date Collected: 05/15/13 14:00
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-27
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.16	J	0.50	0.010	mg/L		05/17/13 13:00	05/22/13 06:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 13:00	05/22/13 06:02	1
Boron	1.1		0.10	0.050	mg/L		05/17/13 13:00	05/22/13 06:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 13:00	05/22/13 06:02	1
Chromium	0.042		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:02	1
Cobalt	0.017	J	0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 06:02	1
Iron	43		0.20	0.20	mg/L		05/17/13 13:00	05/22/13 06:02	1
Lead	0.040		0.0075	0.0050	mg/L		05/17/13 13:00	05/22/13 06:02	1
Manganese	0.21		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:02	1
Nickel	0.040		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:02	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 13:00	05/22/13 06:02	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 06:02	1
Zinc	0.12	B	0.10	0.020	mg/L		05/17/13 13:00	05/22/13 06:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 13:00	05/28/13 16:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 13:00	05/28/13 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	B	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.021	0.0099	mg/Kg	☼	05/16/13 15:20	05/20/13 11:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.12		0.200	0.200	SU			05/21/13 14:35	1

Client Sample ID: 2181-2-B05-2
Date Collected: 05/15/13 14:10
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-28
Matrix: Solid
Percent Solids: 73.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0066		0.0051	0.0022	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	05/15/13 14:10	05/20/13 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 122*	*05/15/13 14:10*	*05/20/13 16:28*	*1*
Dibromofluoromethane	*99*		*75 - 120*	*05/15/13 14:10*	*05/20/13 16:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*05/15/13 14:10*	*05/20/13 16:28*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*	*05/15/13 14:10*	*05/20/13 16:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.068	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
1,3-Dichlorobenzene	<0.22		0.22	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
1,4-Dichlorobenzene	<0.22		0.22	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B05-2
Date Collected: 05/15/13 14:10
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-28
Matrix: Solid
Percent Solids: 73.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
2-Methylphenol	<0.22		0.22	0.057	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.055	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Hexachloroethane	<0.22		0.22	0.046	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
2-Chlorophenol	<0.22		0.22	0.062	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Nitrobenzene	<0.043		0.043	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
2,4-Dimethylphenol	<0.43		0.43	0.13	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Hexachlorobutadiene	<0.22		0.22	0.056	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Naphthalene	<0.043		0.043	0.0083	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
2,4-Dichlorophenol	<0.43		0.43	0.13	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
4-Chloroaniline	<0.87		0.87	0.13	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
2,4,6-Trichlorophenol	<0.43		0.43	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
2,4,5-Trichlorophenol	<0.43		0.43	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Hexachlorocyclopentadiene	<0.87		0.87	0.20	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
2-Methylnaphthalene	<0.22		0.22	0.056	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
2-Nitroaniline	<0.22		0.22	0.077	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
4-Chloro-3-methylphenol	<0.43		0.43	0.21	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
2,6-Dinitrotoluene	<0.22		0.22	0.051	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
2-Nitrophenol	<0.43		0.43	0.067	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
3-Nitroaniline	<0.43		0.43	0.083	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Dimethyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
2,4-Dinitrophenol	<0.87		0.87	0.22	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Acenaphthylene	<0.043		0.043	0.0099	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
2,4-Dinitrotoluene	<0.22		0.22	0.066	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Acenaphthene	<0.043		0.043	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Dibenzofuran	<0.22		0.22	0.052	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
4-Nitrophenol	<0.87		0.87	0.23	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Fluorene	<0.043		0.043	0.0098	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
4-Nitroaniline	<0.43		0.43	0.088	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Hexachlorobenzene	<0.087		0.087	0.0085	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Diethyl phthalate	<0.22		0.22	0.072	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.068	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Pentachlorophenol	<0.87		0.87	0.22	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
N-Nitrosodiphenylamine	<0.22		0.22	0.058	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
4,6-Dinitro-2-methylphenol	<0.43		0.43	0.10	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Phenanthrene	**0.046**		0.043	0.018	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Anthracene	**0.011**	**J**	0.043	0.010	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Carbazole	<0.22		0.22	0.060	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Di-n-butyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Fluoranthene	<0.043		0.043	0.018	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Pyrene	<0.043		0.043	0.016	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Butyl benzyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Benzo[a]anthracene	<0.043		0.043	0.0090	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1

Client Sample ID: 2181-2-B05-2
Date Collected: 05/15/13 14:10
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-28
Matrix: Solid
Percent Solids: 73.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.023**	**J**	0.043	0.0097	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.036	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.057	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Di-n-octyl phthalate	<0.22		0.22	0.087	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Benzo[b]fluoranthene	<0.043		0.043	0.0084	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Benzo[k]fluoranthene	<0.043		0.043	0.010	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Benzo[a]pyrene	**0.0083**	**J**	0.043	0.0078	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.015	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Dibenz(a,h)anthracene	<0.043		0.043	0.012	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
Benzo[g,h,i]perylene	**0.022**	**J**	0.043	0.015	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1
3 & 4 Methylphenol	<0.22		0.22	0.081	mg/Kg	☼	05/20/13 07:24	05/30/13 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*58*		*30 - 110*	*05/20/13 07:24*	*05/30/13 12:18*	*1*
Phenol-d5	*63*		*31 - 110*	*05/20/13 07:24*	*05/30/13 12:18*	*1*
Nitrobenzene-d5	*62*		*30 - 115*	*05/20/13 07:24*	*05/30/13 12:18*	*1*
2-Fluorobiphenyl	*67*		*30 - 119*	*05/20/13 07:24*	*05/30/13 12:18*	*1*
2,4,6-Tribromophenol	*76*		*35 - 137*	*05/20/13 07:24*	*05/30/13 12:18*	*1*
Terphenyl-d14	*61*		*36 - 134*	*05/20/13 07:24*	*05/30/13 12:18*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.53	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Arsenic	**5.4**		0.66	0.13	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Barium	**15**	**B**	0.66	0.070	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Beryllium	**0.48**		0.26	0.023	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Boron	**9.0**		3.3	0.14	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Cadmium	**0.21**		0.13	0.017	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Calcium	**55000**	**B**	13	3.6	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Chromium	**9.9**		0.66	0.076	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Cobalt	**6.8**		0.33	0.023	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Copper	**18**		0.66	0.058	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Iron	**11000**		13	5.4	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Lead	**9.8**		0.33	0.098	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Magnesium	**34000**	**B**	6.6	1.4	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Manganese	**450**	**B**	0.66	0.036	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Nickel	**16**		0.66	0.065	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Potassium	**1300**		33	2.0	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Selenium	<0.66		0.66	0.23	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Silver	<0.33		0.33	0.024	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Sodium	**360**		66	8.8	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Thallium	<0.66		0.66	0.28	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Vanadium	**18**		0.33	0.049	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1
Zinc	**36**		1.3	0.27	mg/Kg	☼	05/16/13 09:40	05/24/13 02:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/30/13 23:43	1
Manganese	**4.1**		0.025	0.010	mg/L		05/30/13 09:30	05/30/13 23:43	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Client Sample ID: 2181-2-B05-2
Date Collected: 05/15/13 14:10
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-28
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.082**	**J**	0.50	0.010	mg/L		05/17/13 13:00	05/22/13 06:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 13:00	05/22/13 06:06	1
Boron	**1.8**		0.10	0.050	mg/L		05/17/13 13:00	05/22/13 06:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 13:00	05/22/13 06:06	1
Chromium	**0.019**	**J**	0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:06	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 06:06	1
Iron	**6.3**		0.20	0.20	mg/L		05/17/13 13:00	05/22/13 06:06	1
Lead	**0.0067**	**J**	0.0075	0.0050	mg/L		05/17/13 13:00	05/22/13 06:06	1
Manganese	**0.22**		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:06	1
Nickel	<0.025		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:06	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 13:00	05/22/13 06:06	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 06:06	1
Zinc	**0.049**	**J B**	0.10	0.020	mg/L		05/17/13 13:00	05/22/13 06:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 13:00	05/28/13 16:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 13:00	05/28/13 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000056**	**J B**	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**	**J**	0.021	0.0098	mg/Kg	☼	05/16/13 15:20	05/20/13 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.75**		0.200	0.200	SU			05/21/13 14:38	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-4

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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)

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory		
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: I55, Cook Co Project No.: IDOT2013-006 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:**	COC No.: 4 of 8 Lab Job No.: 500-570454-1 Sample Temp: 3.8, 3.5, 3.7

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If ~~Total metal result exceeds MAC AND~~ SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
18	2181-2-B01-1	5/15	3:05	S	✓	✓					✓	✓	✓	✓						0-5'
19	2181-2-B01-1 DUP	5/15	3:10	S	✓	✓					✓	✓	✓	✓						0-5'
20	2181-2-B01-2	5/15	3:15	S	✓	✓					✓	✓	✓	✓						5-10'
21	2181-2-B02-1	5/15	2:55	S	✓	✓					✓	✓	✓	✓						0-5'
22	2181-2-B02-2	5/15	3:00	S	✓	✓					✓	✓	✓	✓						5-10'
23	2181-2-B03-1	5/15	2:40	S	✓	✓					✓	✓	✓	✓						0-5'
24	2181-2-B03-2	5/15	2:45	S	✓	✓					✓	✓	✓	✓						5-10'
25	2181-2-B04-1	5/15	2:20	S	✓	✓					✓	✓	✓	✓						0-5'
26	2181-2-B04-2	5/15	2:30	S	✓	✓					✓	✓	✓	✓						5-10'
27	2181--2-B05-1	5/15	2:00	S	✓	✓					✓	✓	✓	✓						0-5'
28	2181--2-B05-2	5/15	2:10	S	✓	✓					✓	✓	✓	✓						5-10'
29	2181-2-B06-1	5/15	1:00	S	✓	✓					✓	✓	✓	✓						0-5'

Relinquished by:	Date/Time 5/15/13 16:10	Received by:	Date/Time 5-15-13/1610
Relinquished by: 5-15-13	Date/Time 1714	Received by:	Date/Time 5/16/13 0700
Relinquished by:	Date/Time	Received by:	Date/Time

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: I 55 COOK Co	COC No.: 6 of 8
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project No.: IDOT 2013-006 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:**	Lab Job No.: 500-57045-1 Sample Temp: 3.8, 3.5, 3.7

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If ~~Total metal result exceeds MAC AND~~ 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					Comments
31	2181-2-B06-2	5/15	1:05	S	✓	✓					✓	✓	✓	✓						5-10
32	2181-2-B06-DUP	5/15	1:10	S	✓	✓					✓	✓	✓	✓						5-10
	~~2181-2-B07-1~~																			
	2181-2-B07-2																			
	2181-2-B08-1																			
	2181-2-B08-2																			
	2181-2-B09-1																			
	2181-2-B09-2																			
	2181-2-B10-1																			
	2181-2-B10-2																			
	2181-2-B11-1																			
	~~2181-2-B11-2~~																			

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

Relinquished by:	Date/Time 5/15/13 16:10	Received by:	Date/Time 1610
Relinquished by:	Date/Time 5-15-13 1714	Received by:	Date/Time 5/16/13 0700
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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 348 (IL 43) Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
4253-4455 South Harlem Avenue

City: Stickney State: IL Zip Code: 60402

County: Cook Township: Stickney

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

Latitude: 41.81052 (Decimal Degrees) Longitude: -87.80200 (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☒ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: 0313005032 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: Il	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847.705.4101	Zip Code:	60196-1096 Phone: 847.705.4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 348 (IL 43)

Latitude: 41.81052 Longitude: -87.80200

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 2181-8-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 2181-8. SEE FIGURE 3 AND TABLE 3b OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID: 500-57144-7

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:

12/24/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
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 2181-8
Apartment Buildings

Sample ID	2181-8-B01						
Sample Depth (ft)	0-2						
Sample Date	5/16/2013						
PID	0						
Sample pH	7.77	[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
Matrix	Soil						
No Contaminants of Concern Noted.							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-57144-7
Client Project/Site: IDOT - IL 43 - WO 006

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

Attn: Mike Nelson

Authorized for release by:
6/5/2013 3:35:12 PM

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

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-7

Client Sample ID: 2181-8-B01
Date Collected: 05/16/13 09:45
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-25
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0053		0.0053	0.0023	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Benzene	<0.0053		0.0053	0.00072	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Bromodichloromethane	<0.0053		0.0053	0.00091	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Carbon disulfide	<0.0053		0.0053	0.00079	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Carbon tetrachloride	<0.0053		0.0053	0.00096	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Chlorobenzene	<0.0053		0.0053	0.00054	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Chloroethane	<0.0053		0.0053	0.0014	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00069	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Dibromochloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
1,1-Dichloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
1,1-Dichloroethene	<0.0053		0.0053	0.00085	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
1,2-Dichloropropane	<0.0053		0.0053	0.00080	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00069	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00087	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Styrene	<0.0053		0.0053	0.00069	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Tetrachloroethene	<0.0053		0.0053	0.00081	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Toluene	<0.0053		0.0053	0.00074	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00095	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Trichloroethene	<0.0053		0.0053	0.00087	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Vinyl acetate	<0.0053		0.0053	0.00083	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	05/16/13 09:45	05/21/13 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 122*	*05/16/13 09:45*	*05/21/13 01:07*	*1*
Dibromofluoromethane	*94*		*75 - 120*	*05/16/13 09:45*	*05/21/13 01:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*	*05/16/13 09:45*	*05/21/13 01:07*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*	*05/16/13 09:45*	*05/21/13 01:07*	*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	☼	05/20/13 17:21	06/04/13 15:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-7

Client Sample ID: 2181-8-B01
Date Collected: 05/16/13 09:45
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-25
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
2,4-Dinitrotoluene	<0.20	*	0.20	0.061	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Diethyl phthalate	<0.20	*	0.20	0.066	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1

Client Sample ID: 2181-8-B01
Date Collected: 05/16/13 09:45
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-25
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	05/20/13 17:21	06/04/13 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*45*		*30 - 110*	*05/20/13 17:21*	*06/04/13 15:03*	*1*
Phenol-d5	*52*		*31 - 110*	*05/20/13 17:21*	*06/04/13 15:03*	*1*
Nitrobenzene-d5	*21*	*X*	*30 - 115*	*05/20/13 17:21*	*06/04/13 15:03*	*1*
2-Fluorobiphenyl	*26*	*X*	*30 - 119*	*05/20/13 17:21*	*06/04/13 15:03*	*1*
2,4,6-Tribromophenol	*46*		*35 - 137*	*05/20/13 17:21*	*06/04/13 15:03*	*1*
Terphenyl-d14	*53*		*36 - 134*	*05/20/13 17:21*	*06/04/13 15:03*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Arsenic	**4.6**		0.58	0.12	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Barium	**49**	**B**	0.58	0.062	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Beryllium	**0.44**		0.23	0.021	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Boron	**4.6**	**B**	2.9	0.12	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Cadmium	<0.12		0.12	0.015	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Calcium	**5500**	**B**	12	3.2	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Chromium	**9.1**		0.58	0.068	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Cobalt	**4.6**		0.29	0.021	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Copper	**24**	**B**	0.58	0.052	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Iron	**9600**		12	4.8	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Lead	**11**	**B**	0.29	0.087	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Magnesium	**2400**	**B**	5.8	1.2	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Manganese	**100**		0.58	0.032	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Nickel	**12**		0.58	0.057	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Potassium	**480**		29	1.8	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Selenium	**0.42**	**J**	0.58	0.21	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Sodium	**120**		58	7.8	mg/Kg	☼	05/17/13 14:00	05/26/13 05:18	1
Thallium	<0.58		0.58	0.25	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Vanadium	**22**		0.29	0.043	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1
Zinc	**19**	**B**	1.2	0.24	mg/Kg	☼	05/17/13 14:00	05/25/13 07:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.33**		0.20	0.20	mg/L		05/31/13 08:35	06/01/13 06:16	1
Lead	**0.0052**	**J**	0.0075	0.0050	mg/L		05/31/13 08:35	06/01/13 06:16	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-7

Client Sample ID: 2181-8-B01
Date Collected: 05/16/13 09:45
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-25
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.15	J	0.50	0.010	mg/L		05/21/13 08:20	05/26/13 03:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/21/13 08:20	05/26/13 03:42	1
Boron	1.6		0.10	0.050	mg/L		05/21/13 08:20	05/26/13 03:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:20	05/26/13 03:42	1
Chromium	0.021	J	0.025	0.010	mg/L		05/21/13 08:20	05/26/13 03:42	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 03:42	1
Iron	8.5	B	0.20	0.20	mg/L		05/21/13 08:20	05/26/13 03:42	1
Lead	0.0094		0.0075	0.0050	mg/L		05/21/13 08:20	05/26/13 03:42	1
Manganese	0.042		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 03:42	1
Nickel	0.015	J	0.025	0.010	mg/L		05/21/13 08:20	05/26/13 03:42	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:20	05/26/13 03:42	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 03:42	1
Zinc	0.050	J	0.10	0.020	mg/L		05/21/13 08:20	05/26/13 03:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:20	05/28/13 18:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:20	05/28/13 18:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.020	0.0092	mg/Kg	☼	05/20/13 15:20	05/21/13 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77		0.200	0.200	SU			05/23/13 16:44	1

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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)

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: I55 Cook CO Project No.: IDOT 2013-006 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:**

COC No.: 3 of 5

Lab Job No.: 500-57144

Sample Temp:

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If ~~Total metal result exceeds MAC *AND*~~ SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Matrix Key:

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
25	2181-8-B01	5/16	9:45	S	✓	✓					✓	✓	✓	✓						0-2'
26	2181-8-G01	5/16	10:15	W	✓	✓					✓		✓							8.7'
27	TRIP BLANK 3	5/16	—	W	✓															

Relinquished by:	5/16/13 05:45	Received by:	5-16-13 Date/Time 15:15
Relinquished by:	Date/Time 5-16-13 1705	Received by:	Date/Time 5/17/13 0700
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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 348 (IL 43) Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
4501 South Harlem Avenue

City: Forest View State: IL Zip Code: 60402

County: Cook Township: Stickney

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

Latitude: 41.81013 (Decimal Degrees) Longitude: -87.80198 (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☒ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: Il	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847.705.4101	Zip Code:	60196-1096 Phone: 847.705.4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 348 (IL 43)

Latitude: 41.81013 Longitude: -87.80198

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 2181-9-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2181-9. SEE FIGURE 3 AND TABLE 3c OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID: 500-57144-8

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

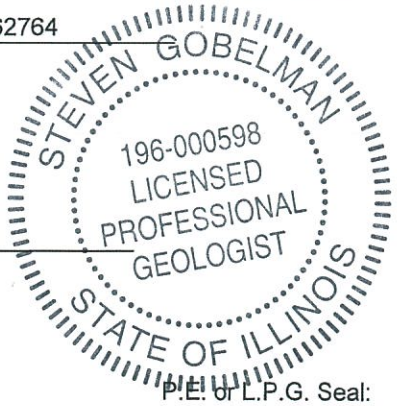
Phone: (217)-785-7525

Steven Gobelman, P.E., L.P.G.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

12/24/14
Date:

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



THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
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 2181-9
Dunkin Donuts

Sample ID	2181-9-B01	2181-9-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	[6] Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-2	0-2							
Sample Date	5/16/2013	5/16/2013							
PID	0	0							
Sample pH	7.92	7.74							
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: 500-57144-8
Client Project/Site: IDOT - IL 43 - WO 006

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

Attn: Mike Nelson

Authorized for release by:
6/5/2013 4:26:58 PM

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

Client Sample ID: 2181-9-B01
Date Collected: 05/16/13 09:10
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-28
Matrix: Solid
Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.020**		0.0046	0.0020	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
2-Butanone (MEK)	**0.0045**	**J**	0.0046	0.0017	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Vinyl acetate	<0.0046		0.0046	0.00072	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	05/16/13 09:10	05/21/13 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 122*	*05/16/13 09:10*	*05/21/13 01:30*	*1*
Dibromofluoromethane	*92*		*75 - 120*	*05/16/13 09:10*	*05/21/13 01:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*05/16/13 09:10*	*05/21/13 01:30*	*1*
Toluene-d8 (Surr)	*98*		*75 - 122*	*05/16/13 09:10*	*05/21/13 01:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-8

Client Sample ID: 2181-9-B01
Date Collected: 05/16/13 09:10
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-28
Matrix: Solid
Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Naphthalene	**0.015**	**J**	0.035	0.0068	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Hexachlorocyclopentadiene	<0.72		0.72	0.16	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
3-Nitroaniline	<0.35		0.35	0.069	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
2,4-Dinitrophenol	<0.72	*	0.72	0.18	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Acenaphthylene	<0.035		0.035	0.0082	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Phenanthrene	**0.090**		0.035	0.015	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Anthracene	**0.011**	**J**	0.035	0.0083	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Fluoranthene	**0.11**		0.035	0.015	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Pyrene	**0.099**		0.035	0.013	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Benzo[a]anthracene	**0.053**		0.035	0.0074	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1

Client Sample ID: 2181-9-B01
Date Collected: 05/16/13 09:10
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-28
Matrix: Solid
Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.061**		0.035	0.0080	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Benzo[b]fluoranthene	**0.088**		0.035	0.0069	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Benzo[k]fluoranthene	**0.026**	**J**	0.035	0.0085	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Benzo[a]pyrene	**0.061**		0.035	0.0065	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Indeno[1,2,3-cd]pyrene	**0.064**		0.035	0.012	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Dibenz(a,h)anthracene	**0.037**		0.035	0.0099	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
Benzo[g,h,i]perylene	**0.073**		0.035	0.012	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	05/17/13 17:10	05/21/13 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*55*		*30 - 110*	*05/17/13 17:10*	*05/21/13 17:01*	*1*
Phenol-d5	*67*		*31 - 110*	*05/17/13 17:10*	*05/21/13 17:01*	*1*
Nitrobenzene-d5	*63*		*30 - 115*	*05/17/13 17:10*	*05/21/13 17:01*	*1*
2-Fluorobiphenyl	*61*		*30 - 119*	*05/17/13 17:10*	*05/21/13 17:01*	*1*
2,4,6-Tribromophenol	*102*		*35 - 137*	*05/17/13 17:10*	*05/21/13 17:01*	*1*
Terphenyl-d14	*89*		*36 - 134*	*05/17/13 17:10*	*05/21/13 17:01*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Arsenic	**3.6**		0.52	0.10	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Barium	**21**	**B**	0.52	0.056	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Beryllium	**0.33**		0.21	0.018	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Boron	**3.7**	**B**	2.6	0.11	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Cadmium	**0.16**	**B**	0.10	0.013	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Calcium	**8800**	**B**	10	2.8	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Chromium	**7.0**	**^**	0.52	0.061	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Cobalt	**2.7**		0.26	0.019	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Copper	**25**		0.52	0.046	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Iron	**5300**		10	4.3	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Lead	**13**		0.26	0.078	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Magnesium	**4900**	**B**	5.2	1.1	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Manganese	**92**		0.52	0.028	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Nickel	**7.2**	**B**	0.52	0.051	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Potassium	**480**		26	1.6	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Selenium	<0.52		0.52	0.19	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Sodium	**99**		52	7.0	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Thallium	**0.23**	**J**	0.52	0.22	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Vanadium	**15**		0.26	0.039	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1
Zinc	**24**	**B**	1.0	0.21	mg/Kg	☼	05/17/13 14:00	05/18/13 22:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/31/13 08:35	06/01/13 06:22	1
Iron	<0.20		0.20	0.20	mg/L		05/31/13 08:35	06/01/13 06:22	1
Lead	**0.017**		0.0075	0.0050	mg/L		05/31/13 08:35	06/01/13 06:22	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-8

Client Sample ID: 2181-9-B01
Date Collected: 05/16/13 09:10
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-28
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.12	J	0.50	0.010	mg/L		05/21/13 08:46	05/21/13 23:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/21/13 08:46	05/21/13 23:50	1
Boron	2.1		0.10	0.050	mg/L		05/21/13 08:46	05/21/13 23:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:46	05/21/13 23:50	1
Chromium	0.031		0.025	0.010	mg/L		05/21/13 08:46	05/21/13 23:50	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/21/13 08:46	05/21/13 23:50	1
Iron	15		0.20	0.20	mg/L		05/21/13 08:46	05/21/13 23:50	1
Lead	0.018		0.0075	0.0050	mg/L		05/21/13 08:46	05/21/13 23:50	1
Manganese	0.065		0.025	0.010	mg/L		05/21/13 08:46	05/21/13 23:50	1
Nickel	0.021	J	0.025	0.010	mg/L		05/21/13 08:46	05/21/13 23:50	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:46	05/21/13 23:50	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:46	05/21/13 23:50	1
Zinc	0.099	J	0.10	0.020	mg/L		05/21/13 08:46	05/21/13 23:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:46	05/28/13 18:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:46	05/28/13 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000052	J	0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0081	mg/Kg	☼	05/20/13 15:20	05/21/13 13:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.92		0.200	0.200	SU			05/23/13 16:41	1

Client Sample ID: 2181-9-B02
Date Collected: 05/16/13 09:15
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-29
Matrix: Solid
Percent Solids: 91.2

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	☼	05/16/13 09:15	05/21/13 01:53	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	05/16/13 09:15	05/21/13 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 122*	*05/16/13 09:15*	*05/21/13 01:53*	*1*
Dibromofluoromethane	*91*		*75 - 120*	*05/16/13 09:15*	*05/21/13 01:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 134*	*05/16/13 09:15*	*05/21/13 01:53*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*	*05/16/13 09:15*	*05/21/13 01:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.055	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-8

Client Sample ID: 2181-9-B02
Date Collected: 05/16/13 09:15
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-29
Matrix: Solid
Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
2-Methylphenol	<0.17		0.17	0.046	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Naphthalene	<0.034		0.034	0.0067	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
2,4-Dichlorophenol	<0.34		0.34	0.11	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
4-Chloroaniline	<0.70		0.70	0.11	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
2,4,5-Trichlorophenol	<0.34		0.34	0.099	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Hexachlorocyclopentadiene	<0.70		0.70	0.16	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
2-Methylnaphthalene	<0.17		0.17	0.045	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
4-Chloro-3-methylphenol	<0.34		0.34	0.17	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
3-Nitroaniline	<0.34		0.34	0.067	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
2,4-Dinitrophenol	<0.70	*	0.70	0.18	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Acenaphthylene	<0.034		0.034	0.0079	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Dibenzofuran	<0.17		0.17	0.042	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
4-Nitrophenol	<0.70		0.70	0.19	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Fluorene	<0.034		0.034	0.0079	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
4-Nitroaniline	<0.34		0.34	0.071	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Hexachlorobenzene	<0.070		0.070	0.0068	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Pentachlorophenol	<0.70		0.70	0.18	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
N-Nitrosodiphenylamine	<0.17		0.17	0.047	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.084	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Phenanthrene	**0.039**		0.034	0.014	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Anthracene	**0.0088**	**J**	0.034	0.0081	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Carbazole	<0.17		0.17	0.049	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Di-n-butyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Fluoranthene	**0.094**		0.034	0.014	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Pyrene	**0.073**		0.034	0.012	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Benzo[a]anthracene	**0.048**		0.034	0.0072	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1

Client Sample ID: 2181-9-B02
Date Collected: 05/16/13 09:15
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-29
Matrix: Solid
Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.043**		0.034	0.0078	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.046	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Di-n-octyl phthalate	<0.17		0.17	0.070	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Benzo[b]fluoranthene	**0.061**		0.034	0.0067	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Benzo[k]fluoranthene	**0.021**	**J**	0.034	0.0082	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Benzo[a]pyrene	**0.042**		0.034	0.0063	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Indeno[1,2,3-cd]pyrene	**0.034**		0.034	0.012	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Dibenz(a,h)anthracene	**0.018**	**J**	0.034	0.0097	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
Benzo[g,h,i]perylene	**0.041**		0.034	0.012	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1
3 & 4 Methylphenol	<0.17		0.17	0.065	mg/Kg	☼	05/17/13 17:10	05/21/13 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*48*		*30 - 110*	*05/17/13 17:10*	*05/21/13 17:21*	*1*
Phenol-d5	*58*		*31 - 110*	*05/17/13 17:10*	*05/21/13 17:21*	*1*
Nitrobenzene-d5	*62*		*30 - 115*	*05/17/13 17:10*	*05/21/13 17:21*	*1*
2-Fluorobiphenyl	*59*		*30 - 119*	*05/17/13 17:10*	*05/21/13 17:21*	*1*
2,4,6-Tribromophenol	*86*		*35 - 137*	*05/17/13 17:10*	*05/21/13 17:21*	*1*
Terphenyl-d14	*73*		*36 - 134*	*05/17/13 17:10*	*05/21/13 17:21*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.40	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Arsenic	**4.1**		0.50	0.099	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Barium	**19**	**B**	0.50	0.053	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Beryllium	**0.39**		0.20	0.018	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Boron	**2.9**	**B**	2.5	0.10	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Cadmium	**0.067**	**J B**	0.10	0.013	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Calcium	**2600**	**B**	10	2.7	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Chromium	**8.2**	**^**	0.50	0.058	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Cobalt	**2.7**		0.25	0.018	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Copper	**9.3**		0.50	0.044	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Iron	**7800**		10	4.1	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Lead	**7.4**		0.25	0.074	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Magnesium	**1300**	**B**	5.0	1.0	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Manganese	**39**		0.50	0.027	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Nickel	**8.2**	**B**	0.50	0.049	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Potassium	**380**		25	1.5	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Selenium	<0.50		0.50	0.18	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Silver	<0.25		0.25	0.018	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Sodium	**72**		50	6.7	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Thallium	<0.50		0.50	0.21	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Vanadium	**23**		0.25	0.037	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1
Zinc	**13**	**B**	1.0	0.20	mg/Kg	☼	05/17/13 14:00	05/18/13 23:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/31/13 08:35	06/01/13 06:43	1
Iron	**0.52**		0.20	0.20	mg/L		05/31/13 08:35	06/01/13 06:43	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/31/13 08:35	06/01/13 06:43	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-8

Client Sample ID: 2181-9-B02
Date Collected: 05/16/13 09:15
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-29
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.10	J	0.50	0.010	mg/L		05/21/13 08:46	05/21/13 23:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/21/13 08:46	05/21/13 23:54	1
Boron	2.0		0.10	0.050	mg/L		05/21/13 08:46	05/21/13 23:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:46	05/21/13 23:54	1
Chromium	0.028		0.025	0.010	mg/L		05/21/13 08:46	05/21/13 23:54	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/21/13 08:46	05/21/13 23:54	1
Iron	13		0.20	0.20	mg/L		05/21/13 08:46	05/21/13 23:54	1
Lead	0.019		0.0075	0.0050	mg/L		05/21/13 08:46	05/21/13 23:54	1
Manganese	0.051		0.025	0.010	mg/L		05/21/13 08:46	05/21/13 23:54	1
Nickel	0.018	J	0.025	0.010	mg/L		05/21/13 08:46	05/21/13 23:54	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:46	05/21/13 23:54	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:46	05/21/13 23:54	1
Zinc	0.070	J	0.10	0.020	mg/L		05/21/13 08:46	05/21/13 23:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:46	05/28/13 18:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:46	05/28/13 18:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 16:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.017	0.0080	mg/Kg	☼	05/20/13 15:20	05/21/13 13:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.74		0.200	0.200	SU			05/23/13 16:14	1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	Duplicate RPD exceeds the control limit
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, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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)

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: I55 COOK CO Project No.: IDOT 2013-006 TAT: [X] 15 BD [ ] 10 BD [ ] 5 BD [ ] 2 BD ____ Other **Sampler:**

COC No.: 4 of 5

Lab Job No.: 500-57144

Sample Temp:

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If ~~Total metal result exceeds MAC AND~~ SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Matrix Key:

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
28	2181-9-B01	5/16	9:10	S	✓	✓					✓	✓	✓	✓						0-2'
29	2181-9-B02	5/16	9:15	S	✓	✓					✓	✓	✓	✓						0-2'
30	2181-9-G01	5/16	9:30	W	✓	✓					✓		✓							7.2'

Relinquished by:	5/16/13 15:45	Received by:	5-16-13 1545
Relinquished by:	5-17-13/1705	Received by:	5/17/13 0700
Relinquished by:		Received by:	

Illinois Environmental Protection Agency

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 348 (IL 43) Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
4511 South Harlem Avenue

City: Forest View State: IL Zip Code: 60402

County: Cook Township: Stickney

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

Latitude: 41.80974 (Decimal Degrees) Longitude: -87.80197 (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☒ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: Il	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847.705.4101	Zip Code:	60196-1096 Phone: 847.705.4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 348 (IL 43)

Latitude: 41.80974 Longitude: -87.80197

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 2181-10-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 2181-10. SEE FIGURE 3 AND TABLE 3d OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID: 500-57144-1

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

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

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

Company Name: 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:

12/24/14
Date:

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

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
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 2181-10
Mixed Use Building

Sample ID	2181-10-B01	[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)	0-2						
Sample Date	5/16/2013						
PID	0						
Sample pH	8.32						
Matrix	Soil						
No Contaminants of Concern Noted.							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-57144-1
Client Project/Site: IDOT - IL 43 - WO 006

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

Attn: Mike Nelson

Authorized for release by:
6/4/2013 2:19:48 PM

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

Client Sample ID: 2181-10-B01
Date Collected: 05/16/13 08:50
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-1
Matrix: Solid
Percent Solids: 86.8

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	☼	05/16/13 08:50	05/21/13 11:41	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Vinyl acetate	<0.0045	*	0.0045	0.00071	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	05/16/13 08:50	05/21/13 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 122*	*05/16/13 08:50*	*05/21/13 11:41*	*1*
Dibromofluoromethane	*102*		*75 - 120*	*05/16/13 08:50*	*05/21/13 11:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*05/16/13 08:50*	*05/21/13 11:41*	*1*
Toluene-d8 (Surr)	*114*		*75 - 122*	*05/16/13 08:50*	*05/21/13 11:41*	*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	☼	05/20/13 17:21	06/03/13 17:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-1

Client Sample ID: 2181-10-B01
Date Collected: 05/16/13 08:50
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-1
Matrix: Solid
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
2,4-Dinitrotoluene	<0.19	*	0.19	0.058	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Diethyl phthalate	<0.19	*	0.19	0.063	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Phenanthrene	**0.019**	**J**	0.038	0.016	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Fluoranthene	**0.022**	**J**	0.038	0.016	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Pyrene	**0.026**	**J**	0.038	0.014	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Benzo[a]anthracene	**0.015**	**J**	0.038	0.0080	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1

Client Sample ID: 2181-10-B01
Date Collected: 05/16/13 08:50
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-1
Matrix: Solid
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	05/20/13 17:21	06/03/13 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*31*		*30 - 110*	*05/20/13 17:21*	*06/03/13 17:20*	*1*
Phenol-d5	*42*		*31 - 110*	*05/20/13 17:21*	*06/03/13 17:20*	*1*
Nitrobenzene-d5	*30*		*30 - 115*	*05/20/13 17:21*	*06/03/13 17:20*	*1*
2-Fluorobiphenyl	*48*		*30 - 119*	*05/20/13 17:21*	*06/03/13 17:20*	*1*
2,4,6-Tribromophenol	*66*		*35 - 137*	*05/20/13 17:21*	*06/03/13 17:20*	*1*
Terphenyl-d14	*67*		*36 - 134*	*05/20/13 17:21*	*06/03/13 17:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Arsenic	**4.1**		0.57	0.11	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Barium	**25**	**B**	0.57	0.061	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Beryllium	**0.31**		0.23	0.020	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Boron	**7.8**	**B**	2.8	0.12	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Cadmium	**0.16**		0.11	0.014	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Calcium	**92000**	**B**	110	31	mg/Kg	☼	05/17/13 14:00	05/26/13 02:48	10
Chromium	**6.9**		0.57	0.066	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Cobalt	**2.1**		0.28	0.020	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Copper	**14**	**B**	0.57	0.051	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Iron	**5800**		11	4.7	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Lead	**44**	**B**	0.28	0.085	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Magnesium	**41000**	**B**	5.7	1.2	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Manganese	**120**		0.57	0.031	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Nickel	**5.8**		0.57	0.056	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Potassium	**720**		28	1.7	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Sodium	**170**		57	7.6	mg/Kg	☼	05/17/13 14:00	05/26/13 02:39	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Vanadium	**13**		0.28	0.042	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1
Zinc	**22**	**B**	1.1	0.23	mg/Kg	☼	05/17/13 14:00	05/25/13 03:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/31/13 08:10	06/01/13 03:17	1
Lead	**0.024**		0.0075	0.0050	mg/L		05/31/13 08:10	06/01/13 03:17	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-1

Client Sample ID: 2181-10-B01
Date Collected: 05/16/13 08:50
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.17	J	0.50	0.010	mg/L		05/21/13 08:20	05/26/13 00:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/21/13 08:20	05/26/13 00:55	1
Boron	0.051	J	0.10	0.050	mg/L		05/21/13 08:20	05/26/13 00:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:20	05/26/13 00:55	1
Chromium	0.056		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 00:55	1
Cobalt	0.0090	J	0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 00:55	1
Iron	32	B	0.20	0.20	mg/L		05/21/13 08:20	05/26/13 00:55	1
Lead	0.096		0.0075	0.0050	mg/L		05/21/13 08:20	05/26/13 00:55	1
Manganese	0.13		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 00:55	1
Nickel	0.030		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 00:55	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:20	05/26/13 00:55	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 00:55	1
Zinc	0.10		0.10	0.020	mg/L		05/21/13 08:20	05/26/13 00:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:20	05/28/13 17:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:20	05/28/13 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00025		0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.017	0.0079	mg/Kg	☼	05/20/13 15:20	05/21/13 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU			05/23/13 17:28	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
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
E	Result exceeded calibration range.

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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

ANDREWS ENGINEERING INC

500-57144 COC

Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711
217-787-2334
Contact: Colleen Grey
email: cgrey@andrews-eng.com

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

Project Name: I 55 COOK CO
Project No.: IDOT 2013-006
TAT: ☑ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other
Sampler:

COC No.: 1 of 5
Lab Job No.: 500-57144
Sample Temp: (5.1) (4.8) (4.4)

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If ~~Total metal result exceeds MAC *AND*~~ SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
1	2181-10-B01	5/16	8:50	S	✓	✓					✓	✓	✓	✓						0-2'
2	2181-11-B01	5/16	8:40	S	✓	✓					✓	✓	✓	✓						0-2'
3	2181-2-B10-1	5/16	11:55	S	✓	✓					✓	✓	✓	✓						0-5'
4	2181-2-B10-2	5/16	12:00	S	✓	✓					✓	✓	—	✓						5-10'
5	2181-2-B09-1	5/16	12:05	S	✓	✓					✓	✓	✓	✓						0-5'
6	2181-2-B09-2	5/16	12:10	S	✓	✓					✓	✓	✓	✓						5-10'
7	2181-2-B08-1	5/16	12:30	S	✓	✓					✓	✓	✓	✓						0-5'
8	2181-2-B08-2	5/16	12:35	S	✓	✓					✓	✓	✓	✓						5-10'
9	2181-17-G01	5/16	1:45	W	✓	✓					✓		✓							9.1'
10	2181-14-G01	5/16	2:00	W	✓	✓					✓		✓							4.8'
11	2181-15-G01	5/16	2:15	W	✓	✓					✓		—							18.0'
12	TRIP BLANK 4	5/16	—	W	✓															—

Relinquished by:	Date/Time 5/16/13 15:45	Received by:	Date/Time 5-16-13/1545
Relinquished by:	Date/Time 5-16-13/1705	Received by:	Date/Time 5/17/13 0700
Relinquished by:	Date/Time	Received by:	Date/Time

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING INC

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: I55 Cook Co Project No.: IDOT 2013-006 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:**

COC No.: 3 of 5

Lab Job No.: 500-57144

Sample Temp:

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If ~~Total metal result exceeds MAC AND~~ SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Matrix Key:

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
25	2181-8-B01	5/16	9:45	S	✓	✓					✓	✓	✓	✓						0-2'
26	2181-8-G01	5/16	10:15	W	✓	✓					✓		✓							8.7'
27	TRIP BLANK 3	5/16	—	W	✓															

Relinquished by:	5/16/13 15:45	Received by:	5-16-13 Date/Time 15:15
Relinquished by:	Date/Time 5-16-13 1705	Received by:	Date/Time 5/17/13 0700
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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 348 (IL 43) Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
4519 South Harlem Avenue

City: Forest View State: IL Zip Code: 60402

County: Cook Township: Stickney

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

Latitude: 41.80946 (Decimal Degrees) Longitude: -87.80196 (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☒ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: Il	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847.705.4101	Zip Code:	60196-1096 Phone: 847.705.4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 348 (IL 43)

Latitude: 41.80946 Longitude: -87.80196

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 2181-11-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 2181-11. SEE FIGURE 3 AND TABLE 3e OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID: 500-57144-2

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:

12/24/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED PROFESSIONAL GEOLOGIST
STATE OF ILLINOIS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
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 2181-11
Mixed Use Building

Sample ID	2181-11-B01		[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)	0-2							
Sample Date	5/16/2013							
PID	0							
Sample pH	8.5							
Matrix	Soil							
Semivolatile Organic Compounds (mg/kg)								
Benzo(a)pyrene	**0.17**	**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: 500-57144-2
Client Project/Site: IDOT - IL 43 - WO 006

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

Attn: Mike Nelson

Authorized for release by:
6/4/2013 2:20:43 PM

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

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-2

Client Sample ID: 2181-11-B01
Date Collected: 05/16/13 08:40
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-2
Matrix: Solid
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0057		0.0057	0.0025	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Benzene	<0.0057		0.0057	0.00078	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Bromodichloromethane	<0.0057		0.0057	0.00098	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Bromoform	<0.0057		0.0057	0.0013	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Bromomethane	<0.0057	*	0.0057	0.0017	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
2-Butanone (MEK)	<0.0057		0.0057	0.0021	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Carbon disulfide	<0.0057		0.0057	0.00085	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Carbon tetrachloride	<0.0057		0.0057	0.0010	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Chlorobenzene	<0.0057		0.0057	0.00058	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Chloroethane	<0.0057		0.0057	0.0015	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Chloroform	<0.0057		0.0057	0.00065	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Chloromethane	<0.0057		0.0057	0.0012	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.00081	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.00075	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Dibromochloromethane	<0.0057		0.0057	0.00099	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
1,1-Dichloroethane	<0.0057		0.0057	0.00090	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
1,2-Dichloroethane	<0.0057		0.0057	0.00084	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
1,1-Dichloroethene	<0.0057		0.0057	0.00092	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
1,2-Dichloropropane	<0.0057		0.0057	0.00086	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
1,3-Dichloropropene, Total	<0.0057		0.0057	0.00075	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Ethylbenzene	<0.0057		0.0057	0.0012	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
2-Hexanone	<0.0057		0.0057	0.0016	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Methylene Chloride	<0.0057		0.0057	0.0015	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0015	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Methyl tert-butyl ether	<0.0057		0.0057	0.00094	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Styrene	<0.0057		0.0057	0.00075	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
1,1,2,2-Tetrachloroethane	<0.0057		0.0057	0.0012	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Tetrachloroethene	<0.0057		0.0057	0.00087	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Toluene	<0.0057		0.0057	0.00080	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.00078	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.0010	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.00085	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.00078	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Trichloroethene	<0.0057		0.0057	0.00094	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Vinyl acetate	<0.0057		0.0057	0.00090	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Vinyl chloride	<0.0057		0.0057	0.0012	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1
Xylenes, Total	<0.011		0.011	0.00052	mg/Kg	☼	05/16/13 08:40	05/20/13 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*	*05/16/13 08:40*	*05/20/13 16:02*	*1*
Dibromofluoromethane	*98*		*75 - 120*	*05/16/13 08:40*	*05/20/13 16:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*05/16/13 08:40*	*05/20/13 16:02*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*	*05/16/13 08:40*	*05/20/13 16:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-2

Client Sample ID: 2181-11-B01
Date Collected: 05/16/13 08:40
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-2
Matrix: Solid
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
2,4-Dinitrotoluene	<0.19	*	0.19	0.059	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Dibenzofuran	<0.19		0.19	0.047	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Diethyl phthalate	<0.19	*	0.19	0.065	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Phenanthrene	**0.16**		0.038	0.016	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Anthracene	**0.14**		0.038	0.0091	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Fluoranthene	**0.32**		0.038	0.016	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Pyrene	**0.30**		0.038	0.014	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Butyl benzyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Benzo[a]anthracene	**0.14**		0.038	0.0081	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1

Client Sample ID: 2181-11-B01
Date Collected: 05/16/13 08:40
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-2
Matrix: Solid
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.23		0.038	0.0087	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Benzo[b]fluoranthene	0.19		0.038	0.0075	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Benzo[k]fluoranthene	0.16		0.038	0.0092	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Benzo[a]pyrene	0.17		0.038	0.0071	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Indeno[1,2,3-cd]pyrene	0.11		0.038	0.013	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Dibenz(a,h)anthracene	0.019	J	0.038	0.011	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
Benzo[g,h,i]perylene	0.13		0.038	0.013	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	05/20/13 17:21	06/03/13 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*32*		*30 - 110*	*05/20/13 17:21*	*06/03/13 17:38*	*1*
Phenol-d5	*30*	*X*	*31 - 110*	*05/20/13 17:21*	*06/03/13 17:38*	*1*
Nitrobenzene-d5	*30*		*30 - 115*	*05/20/13 17:21*	*06/03/13 17:38*	*1*
2-Fluorobiphenyl	*45*		*30 - 119*	*05/20/13 17:21*	*06/03/13 17:38*	*1*
2,4,6-Tribromophenol	*59*		*35 - 137*	*05/20/13 17:21*	*06/03/13 17:38*	*1*
Terphenyl-d14	*56*		*36 - 134*	*05/20/13 17:21*	*06/03/13 17:38*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.1	0.44	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Arsenic	6.2		0.54	0.11	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Barium	78	B	0.54	0.058	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Beryllium	0.75		0.22	0.019	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Boron	16	B	2.7	0.11	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Cadmium	0.54		0.11	0.014	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Calcium	78000	B	110	29	mg/Kg	☼	05/17/13 14:00	05/26/13 03:37	10
Chromium	9.1		0.54	0.063	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Cobalt	4.1		0.27	0.019	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Copper	98	B	0.54	0.048	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Iron	13000		11	4.5	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Lead	93	B	0.27	0.081	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Magnesium	36000	B	5.4	1.1	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Manganese	170		0.54	0.029	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Nickel	13		0.54	0.053	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Potassium	880		27	1.6	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Silver	0.14	J	0.27	0.020	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Sodium	710		54	7.3	mg/Kg	☼	05/17/13 14:00	05/26/13 03:32	1
Thallium	<0.54		0.54	0.23	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Vanadium	15		0.27	0.040	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1
Zinc	81	B	1.1	0.22	mg/Kg	☼	05/17/13 14:00	05/25/13 04:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/31/13 08:10	06/01/13 03:23	1
Lead	0.45		0.0075	0.0050	mg/L		05/31/13 08:10	06/01/13 03:23	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57144-2

Client Sample ID: 2181-11-B01
Date Collected: 05/16/13 08:40
Date Received: 05/17/13 07:00

Lab Sample ID: 500-57144-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.15	J	0.50	0.010	mg/L		05/21/13 08:20	05/26/13 01:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/21/13 08:20	05/26/13 01:01	1
Boron	0.87		0.10	0.050	mg/L		05/21/13 08:20	05/26/13 01:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/21/13 08:20	05/26/13 01:01	1
Chromium	0.023	J	0.025	0.010	mg/L		05/21/13 08:20	05/26/13 01:01	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 01:01	1
Iron	13	B	0.20	0.20	mg/L		05/21/13 08:20	05/26/13 01:01	1
Lead	0.074		0.0075	0.0050	mg/L		05/21/13 08:20	05/26/13 01:01	1
Manganese	0.089		0.025	0.010	mg/L		05/21/13 08:20	05/26/13 01:01	1
Nickel	0.015	J	0.025	0.010	mg/L		05/21/13 08:20	05/26/13 01:01	1
Selenium	<0.050		0.050	0.010	mg/L		05/21/13 08:20	05/26/13 01:01	1
Silver	<0.025		0.025	0.0050	mg/L		05/21/13 08:20	05/26/13 01:01	1
Zinc	0.15		0.10	0.020	mg/L		05/21/13 08:20	05/26/13 01:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/21/13 08:20	05/28/13 17:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/21/13 08:20	05/28/13 17:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000067	J	0.00020	0.000020	mg/L		05/21/13 15:00	05/22/13 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.019	0.0091	mg/Kg	☼	05/20/13 15:20	05/21/13 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.50		0.200	0.200	SU			05/23/13 17:24	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
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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)

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

500-57144 COC

Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711
217-787-2334
Contact: Colleen Grey
email: cgrey@andrews-eng.com

Laboratory

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

Project Name: I 55 COOK CO
Project No.: IDOT 2013-006
TAT: ☑ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other
Sampler:

COC No.: 1 of 5
Lab Job No.: 500-57144
Sample Temp: (5.1) (4.8) (4.4)

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If ~~Total metal result exceeds MAC AND~~ SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
1	2181-10-B01	5/16	8:50	S	✓	✓					✓	✓	✓	✓						0-2'
2	2181-11-B01	5/16	8:40	S	✓	✓					✓	✓	✓	✓						0-2'
3	2181-2-B10-1	5/16	11:55	S	✓	✓					✓	✓	✓	✓						0-5'
4	2181-2-B10-2	5/16	12:00	S	✓	✓					✓	✓	—	✓						5-10'
5	2181-2-B09-1	5/16	12:05	S	✓	✓					✓	✓	✓	✓						0-5'
6	2181-2-B09-2	5/16	12:10	S	✓	✓					✓	✓	✓	✓						5-10'
7	2181-2-B08-1	5/16	12:30	S	✓	✓					✓	✓	✓	✓						0-5'
8	2181-2-B08-2	5/16	12:35	S	✓	✓					✓	✓	✓	✓						5-10'
9	2181-17-G01	5/16	1:45	W	✓	✓					✓		✓							9.1'
10	2181-14-G01	5/16	2:00	W	✓	✓					✓		✓							4.8'
11	2181-15-G01	5/16	2:15	W	✓	✓					✓		—							18.0'
12	TRIP BLANK 4	5/16	—	W	✓															—

Relinquished by:	Date/Time 5/16/13 15:45	Received by:	Date/Time 5-16-13/1545
Relinquished by:	Date/Time 5-16-13/1705	Received by:	Date/Time 5/17/13 0700
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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 348 (IL 43) Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
4529-4559 South Harlem Avenue

City: Forest View State: IL Zip Code: 60402

County: Cook Township: Stickney

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

Latitude: 41.80864 (Decimal Degrees) Longitude: -87.80192 (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☒ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: Il	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847.705.4101	Zip Code:	60196-1096 Phone: 847.705.4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 348 (IL 43)

Latitude: 41.80864 Longitude: -87.80192

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 2181-12-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 2181-12. SEE FIGURE 2 AND TABLE 3f OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID: 500-57045-6

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:

12/24/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
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 2181-12
Strip Mall

Sample ID	2181-12-B01-1		2181-12-B01-1 DUP		2181-12-B01-2		[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		0-5		5-10							
Sample Date	5/15/2013		5/15/2013		5/15/2013							
PID	0		0		0							
Sample pH	8.65		8.77		8.15							
Matrix	Soil		Soil		Soil							
Semivolatile Organic Compounds (mg/kg)												
Benzo(a)pyrene	**0.045**		**0.12**	**1,2**	**J 0.019**		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: 500-57045-6
Client Project/Site: IDOT - IL 43 - WO 006

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

Attn: Mike Nelson

Authorized for release by:
5/31/2013 10:15:48 AM

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

Client Sample ID: 2181-12-B01-1
Date Collected: 05/15/13 15:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-33
Matrix: Solid
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.018		0.0049	0.0021	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	05/15/13 15:30	05/20/13 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 122*	*05/15/13 15:30*	*05/20/13 17:40*	*1*
Dibromofluoromethane	*98*		*75 - 120*	*05/15/13 15:30*	*05/20/13 17:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*05/15/13 15:30*	*05/20/13 17:40*	*1*
Toluene-d8 (Surr)	*108*		*75 - 122*	*05/15/13 15:30*	*05/20/13 17:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-6

Client Sample ID: 2181-12-B01-1
Date Collected: 05/15/13 15:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-33
Matrix: Solid
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
2,4-Dimethylphenol	<0.40		0.40	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Phenanthrene	**0.065**		0.040	0.017	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Anthracene	**0.016**	**J**	0.040	0.0094	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Fluoranthene	**0.11**		0.040	0.016	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Pyrene	**0.089**		0.040	0.014	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Benzo[a]anthracene	**0.044**		0.040	0.0084	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1

Client Sample ID: 2181-12-B01-1
Date Collected: 05/15/13 15:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-33
Matrix: Solid
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.053**		0.040	0.0090	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Benzo[b]fluoranthene	**0.048**		0.040	0.0078	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Benzo[k]fluoranthene	**0.042**		0.040	0.0095	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Benzo[a]pyrene	**0.045**		0.040	0.0073	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Indeno[1,2,3-cd]pyrene	**0.043**		0.040	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
Benzo[g,h,i]perylene	**0.042**		0.040	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	05/20/13 07:24	05/30/13 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*54*		*30 - 110*	*05/20/13 07:24*	*05/30/13 14:00*	*1*
Phenol-d5	*58*		*31 - 110*	*05/20/13 07:24*	*05/30/13 14:00*	*1*
Nitrobenzene-d5	*58*		*30 - 115*	*05/20/13 07:24*	*05/30/13 14:00*	*1*
2-Fluorobiphenyl	*61*		*30 - 119*	*05/20/13 07:24*	*05/30/13 14:00*	*1*
2,4,6-Tribromophenol	*78*		*35 - 137*	*05/20/13 07:24*	*05/30/13 14:00*	*1*
Terphenyl-d14	*61*		*36 - 134*	*05/20/13 07:24*	*05/30/13 14:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Arsenic	**3.6**		0.57	0.11	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Barium	**49**	**B**	0.57	0.061	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Beryllium	**0.43**		0.23	0.020	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Boron	**7.5**		2.9	0.12	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Cadmium	**0.48**		0.11	0.015	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Calcium	**110000**	**B**	110	31	mg/Kg	☼	05/16/13 09:40	05/24/13 16:27	10
Chromium	**9.3**		0.57	0.066	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Cobalt	**4.4**		0.29	0.020	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Copper	**27**		0.57	0.051	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Iron	**8700**		11	4.7	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Lead	**44**		0.29	0.085	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Magnesium	**50000**	**B**	5.7	1.2	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Manganese	**140**	**B**	0.57	0.031	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Nickel	**10**		0.57	0.056	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Potassium	**790**		29	1.7	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Sodium	**550**		57	7.7	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Vanadium	**14**		0.29	0.042	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1
Zinc	**46**		1.1	0.23	mg/Kg	☼	05/16/13 09:40	05/24/13 03:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/31/13 00:01	1
Lead	**0.013**		0.0075	0.0050	mg/L		05/30/13 09:30	05/31/13 00:01	1
Manganese	**3.1**		0.025	0.010	mg/L		05/30/13 09:30	05/31/13 00:01	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-6

Client Sample ID: 2181-12-B01-1
Date Collected: 05/15/13 15:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-33
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.010	mg/L		05/17/13 13:00	05/22/13 06:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 13:00	05/22/13 06:46	1
Boron	1.3		0.10	0.050	mg/L		05/17/13 13:00	05/22/13 06:46	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		05/17/13 13:00	05/22/13 06:46	1
Chromium	0.061		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:46	1
Cobalt	0.019	J	0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 06:46	1
Iron	48		0.20	0.20	mg/L		05/17/13 13:00	05/22/13 06:46	1
Lead	0.087		0.0075	0.0050	mg/L		05/17/13 13:00	05/22/13 06:46	1
Manganese	0.45		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:46	1
Nickel	0.049		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:46	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 13:00	05/22/13 06:46	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 06:46	1
Zinc	0.17	B	0.10	0.020	mg/L		05/17/13 13:00	05/22/13 06:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 13:00	05/28/13 16:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 13:00	05/28/13 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	B	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 13:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.019	0.0089	mg/Kg	☼	05/16/13 15:20	05/20/13 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.65		0.200	0.200	SU			05/21/13 14:52	1

Client Sample ID: 2181-12-B01-1 DUP
Date Collected: 05/15/13 15:40
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-34
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.018		0.0047	0.0020	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1
Xylenes, Total	<0.0094		0.0094	0.00042	mg/Kg	☼	05/15/13 15:40	05/20/13 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*	*05/15/13 15:40*	*05/20/13 18:03*	*1*
Dibromofluoromethane	*101*		*75 - 120*	*05/15/13 15:40*	*05/20/13 18:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*05/15/13 15:40*	*05/20/13 18:03*	*1*
Toluene-d8 (Surr)	*109*		*75 - 122*	*05/15/13 15:40*	*05/20/13 18:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-6

Client Sample ID: 2181-12-B01-1 DUP
Date Collected: 05/15/13 15:40
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-34
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Acenaphthene	**0.015**	**J**	0.039	0.012	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Fluorene	**0.017**	**J**	0.039	0.0089	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Phenanthrene	**0.22**		0.039	0.016	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Anthracene	**0.047**		0.039	0.0092	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Fluoranthene	**0.34**		0.039	0.016	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Pyrene	**0.28**		0.039	0.014	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Benzo[a]anthracene	**0.12**		0.039	0.0082	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1

Client Sample ID: 2181-12-B01-1 DUP
Date Collected: 05/15/13 15:40
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-34
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.16**		0.039	0.0089	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Benzo[b]fluoranthene	**0.17**		0.039	0.0076	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Benzo[k]fluoranthene	**0.049**		0.039	0.0094	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Benzo[a]pyrene	**0.12**		0.039	0.0072	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Indeno[1,2,3-cd]pyrene	**0.071**		0.039	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Dibenz(a,h)anthracene	**0.043**		0.039	0.011	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
Benzo[g,h,i]perylene	**0.089**		0.039	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	05/20/13 07:24	05/30/13 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*61*		*30 - 110*	*05/20/13 07:24*	*05/30/13 14:20*	*1*
Phenol-d5	*67*		*31 - 110*	*05/20/13 07:24*	*05/30/13 14:20*	*1*
Nitrobenzene-d5	*66*		*30 - 115*	*05/20/13 07:24*	*05/30/13 14:20*	*1*
2-Fluorobiphenyl	*69*		*30 - 119*	*05/20/13 07:24*	*05/30/13 14:20*	*1*
2,4,6-Tribromophenol	*96*		*35 - 137*	*05/20/13 07:24*	*05/30/13 14:20*	*1*
Terphenyl-d14	*73*		*36 - 134*	*05/20/13 07:24*	*05/30/13 14:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Arsenic	**6.0**		0.56	0.11	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Barium	**79**	**B**	0.56	0.060	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Beryllium	**0.60**		0.22	0.020	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Boron	**7.0**		2.8	0.12	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Cadmium	**0.28**		0.11	0.014	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Calcium	**18000**	**B**	11	3.0	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Chromium	**12**		0.56	0.065	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Cobalt	**10**		0.28	0.020	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Copper	**29**		0.56	0.050	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Iron	**13000**		11	4.6	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Lead	**53**		0.28	0.084	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Magnesium	**11000**	**B**	5.6	1.2	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Manganese	**140**	**B**	0.56	0.030	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Nickel	**16**		0.56	0.055	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Potassium	**760**		28	1.7	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Sodium	**540**		56	7.5	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Vanadium	**19**		0.28	0.042	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1
Zinc	**48**		1.1	0.23	mg/Kg	☼	05/16/13 09:40	05/24/13 04:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/31/13 00:07	1
Lead	**0.013**		0.0075	0.0050	mg/L		05/30/13 09:30	05/31/13 00:07	1
Manganese	**3.0**		0.025	0.010	mg/L		05/30/13 09:30	05/31/13 00:07	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-6

Client Sample ID: 2181-12-B01-1 DUP
Date Collected: 05/15/13 15:40
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-34
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.23	J	0.50	0.010	mg/L		05/17/13 13:00	05/22/13 06:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 13:00	05/22/13 06:50	1
Boron	1.1		0.10	0.050	mg/L		05/17/13 13:00	05/22/13 06:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 13:00	05/22/13 06:50	1
Chromium	0.036		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:50	1
Cobalt	0.010	J	0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 06:50	1
Iron	27		0.20	0.20	mg/L		05/17/13 13:00	05/22/13 06:50	1
Lead	0.050		0.0075	0.0050	mg/L		05/17/13 13:00	05/22/13 06:50	1
Manganese	0.23		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:50	1
Nickel	0.026		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:50	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 13:00	05/22/13 06:50	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 06:50	1
Zinc	0.090	J B	0.10	0.020	mg/L		05/17/13 13:00	05/22/13 06:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 13:00	05/28/13 16:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 13:00	05/28/13 16:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 13:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0088	mg/Kg	☼	05/16/13 15:20	05/20/13 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.77		0.200	0.200	SU			05/21/13 14:55	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-6

Client Sample ID: 2181-12-B01-2
Date Collected: 05/15/13 15:50
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-35
Matrix: Solid
Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.024		0.0053	0.0023	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Benzene	<0.0053		0.0053	0.00072	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Bromodichloromethane	<0.0053		0.0053	0.00091	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Carbon disulfide	<0.0053		0.0053	0.00079	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Carbon tetrachloride	<0.0053		0.0053	0.00096	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Chlorobenzene	<0.0053		0.0053	0.00054	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Chloroethane	<0.0053		0.0053	0.0014	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00069	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Dibromochloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
1,1-Dichloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
1,1-Dichloroethene	<0.0053		0.0053	0.00085	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
1,2-Dichloropropane	<0.0053		0.0053	0.00080	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00069	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00087	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Styrene	<0.0053		0.0053	0.00069	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Tetrachloroethene	<0.0053		0.0053	0.00081	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Toluene	<0.0053		0.0053	0.00074	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00095	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Trichloroethene	<0.0053		0.0053	0.00087	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Vinyl acetate	<0.0053		0.0053	0.00083	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	05/15/13 15:50	05/20/13 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*	*05/15/13 15:50*	*05/20/13 18:27*	*1*
Dibromofluoromethane	*104*		*75 - 120*	*05/15/13 15:50*	*05/20/13 18:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*05/15/13 15:50*	*05/20/13 18:27*	*1*
Toluene-d8 (Surr)	*109*		*75 - 122*	*05/15/13 15:50*	*05/20/13 18:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.22		0.22	0.069	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
1,3-Dichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
1,4-Dichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-6

Client Sample ID: 2181-12-B01-2
Date Collected: 05/15/13 15:50
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-35
Matrix: Solid
Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.22		0.22	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
2-Methylphenol	<0.22		0.22	0.058	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
N-Nitrosodi-n-propylamine	<0.22		0.22	0.055	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Hexachloroethane	<0.22		0.22	0.046	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
2-Chlorophenol	<0.22		0.22	0.062	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Nitrobenzene	<0.043		0.043	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.049	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
2,4-Dimethylphenol	<0.43		0.43	0.14	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Hexachlorobutadiene	<0.22		0.22	0.057	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Naphthalene	<0.043		0.043	0.0084	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
2,4-Dichlorophenol	<0.43		0.43	0.13	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
4-Chloroaniline	<0.88		0.88	0.13	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
2,4,6-Trichlorophenol	<0.43		0.43	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
2,4,5-Trichlorophenol	<0.43		0.43	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Hexachlorocyclopentadiene	<0.88		0.88	0.20	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
2-Methylnaphthalene	<0.22		0.22	0.056	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
2-Nitroaniline	<0.22		0.22	0.078	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
2-Chloronaphthalene	<0.22		0.22	0.049	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
4-Chloro-3-methylphenol	<0.43		0.43	0.21	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
2,6-Dinitrotoluene	<0.22		0.22	0.052	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
2-Nitrophenol	<0.43		0.43	0.068	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
3-Nitroaniline	<0.43		0.43	0.084	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Dimethyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
2,4-Dinitrophenol	<0.88		0.88	0.22	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Acenaphthylene	<0.043		0.043	0.010	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
2,4-Dinitrotoluene	<0.22		0.22	0.067	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Acenaphthene	**0.025**	**J**	0.043	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Dibenzofuran	<0.22		0.22	0.052	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
4-Nitrophenol	<0.88		0.88	0.23	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Fluorene	<0.043		0.043	0.0099	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
4-Nitroaniline	<0.43		0.43	0.089	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Hexachlorobenzene	<0.088		0.088	0.0085	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Diethyl phthalate	<0.22		0.22	0.072	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.068	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Pentachlorophenol	<0.88		0.88	0.22	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
N-Nitrosodiphenylamine	<0.22		0.22	0.059	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
4,6-Dinitro-2-methylphenol	<0.43		0.43	0.11	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Phenanthrene	**0.032**	**J**	0.043	0.018	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Anthracene	**0.013**	**J**	0.043	0.010	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Carbazole	<0.22		0.22	0.061	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Di-n-butyl phthalate	<0.22		0.22	0.055	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Fluoranthene	**0.039**	**J**	0.043	0.018	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Pyrene	**0.037**	**J**	0.043	0.016	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Butyl benzyl phthalate	<0.22		0.22	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Benzo[a]anthracene	**0.017**	**J**	0.043	0.0091	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1

Client Sample ID: 2181-12-B01-2
Date Collected: 05/15/13 15:50
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-35
Matrix: Solid
Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.022**	**J**	0.043	0.0098	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.036	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.057	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Di-n-octyl phthalate	<0.22		0.22	0.088	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Benzo[b]fluoranthene	**0.023**	**J**	0.043	0.0084	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Benzo[k]fluoranthene	<0.043		0.043	0.010	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Benzo[a]pyrene	**0.019**	**J**	0.043	0.0079	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.015	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Dibenz(a,h)anthracene	<0.043		0.043	0.012	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
Benzo[g,h,i]perylene	**0.019**	**J**	0.043	0.015	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1
3 & 4 Methylphenol	<0.22		0.22	0.082	mg/Kg	☼	05/20/13 07:24	05/30/13 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*51*		*30 - 110*	*05/20/13 07:24*	*05/30/13 15:01*	*1*
Phenol-d5	*54*		*31 - 110*	*05/20/13 07:24*	*05/30/13 15:01*	*1*
Nitrobenzene-d5	*48*		*30 - 115*	*05/20/13 07:24*	*05/30/13 15:01*	*1*
2-Fluorobiphenyl	*59*		*30 - 119*	*05/20/13 07:24*	*05/30/13 15:01*	*1*
2,4,6-Tribromophenol	*76*		*35 - 137*	*05/20/13 07:24*	*05/30/13 15:01*	*1*
Terphenyl-d14	*64*		*36 - 134*	*05/20/13 07:24*	*05/30/13 15:01*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Arsenic	**4.8**		0.60	0.12	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Barium	**25**	**B**	0.60	0.065	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Beryllium	**0.43**		0.24	0.021	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Boron	**5.3**		3.0	0.13	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Cadmium	**0.022**	**J**	0.12	0.015	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Calcium	**20000**	**B**	12	3.3	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Chromium	**9.5**		0.60	0.070	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Cobalt	**5.5**		0.30	0.022	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Copper	**12**		0.60	0.053	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Iron	**11000**		12	5.0	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Lead	**7.3**		0.30	0.090	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Magnesium	**13000**	**B**	6.0	1.2	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Manganese	**150**	**B**	0.60	0.033	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Nickel	**13**		0.60	0.059	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Potassium	**840**		30	1.8	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Sodium	**530**		60	8.1	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Thallium	<0.60		0.60	0.25	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Vanadium	**14**		0.30	0.045	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1
Zinc	**30**		1.2	0.24	mg/Kg	☼	05/16/13 09:40	05/24/13 04:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/31/13 00:14	1
Lead	**0.0059**	**J**	0.0075	0.0050	mg/L		05/30/13 09:30	05/31/13 00:14	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-6

Client Sample ID: 2181-12-B01-2
Date Collected: 05/15/13 15:50
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-35
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.13	J	0.50	0.010	mg/L		05/17/13 13:00	05/22/13 06:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 13:00	05/22/13 06:54	1
Boron	1.3		0.10	0.050	mg/L		05/17/13 13:00	05/22/13 06:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 13:00	05/22/13 06:54	1
Chromium	0.021	J	0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:54	1
Cobalt	0.0084	J	0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 06:54	1
Iron	21		0.20	0.20	mg/L		05/17/13 13:00	05/22/13 06:54	1
Lead	0.0093		0.0075	0.0050	mg/L		05/17/13 13:00	05/22/13 06:54	1
Manganese	0.13		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:54	1
Nickel	0.015	J	0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:54	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 13:00	05/22/13 06:54	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 06:54	1
Zinc	0.056	J B	0.10	0.020	mg/L		05/17/13 13:00	05/22/13 06:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 13:00	05/28/13 16:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 13:00	05/28/13 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.021	0.010	mg/Kg	☼	05/16/13 15:20	05/20/13 11:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.15		0.200	0.200	SU			05/21/13 14:57	1

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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)

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: I 55 Cook Co Project No.: IDOT 2013-006 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:**

COC No.: 7 of 8

Lab Job No.: 500-57045-1

Sample Temp: 3.8, 3.5, 3.7

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If ~~Total metal result exceeds MAC AND~~ 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					Comments
33	2181-12-B01-1	5/15	3:30	S	✓	✓					✓	✓	✓	✓						0-5'
34	2181-12-B01-1 DUP	5/15	3:40	S	✓	✓					✓	✓	✓	✓						0-5'
35	2181-12-B01-2	5/15	3:50	S	✓	✓					✓	✓	✓	✓						5-10'
	~~2181-12-B02-1~~																			
	2181-12-B02-2																			
	2181-12-B03-1																			
	~~2181-12-B03-2~~																			

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

Relinquished by:	Date/Time 5/15/13 16:10	Received by:	Date/Time 1610
Relinquished by: 5-13-13	Date/Time 1711	Received by:	Date/Time 5/16/13 0700
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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 348 (IL 43) Office Phone Number, if available:

Physical Site Location (address, incldluding number and street):
4609-4615 South Harlem Avenue

City: Forest View State: IL Zip Code: 60402

County: Cook Township: Stickney

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

Latitude: 41.80799 (Decimal Degrees) Longitude: -87.80190 (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☒ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

Additional BOL: 0310935069

IEPA Site Number(s), if assigned: BOL: 0310933001 BOW: BOA:

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: Il	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847.705.4101	Zip Code:	60196-1096 Phone: 847.705.4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 348 (IL 43)

Latitude: 41.80799 Longitude: -87.80190

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 2181-14-B01 WAS SAMPLED ADJACENT TO SGS SITE NO. 2181-14. SEE FIGURE 2 AND TABLE 3h OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID: 500-57045-2

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:

12/24/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
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 2181-14
All Around Auto & Tire Repair

Sample ID	2181-14-B01		[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)	0-2							
Sample Date	5/15/2013							
PID	0							
Sample pH	8.02							
Matrix	Soil							
Inorganic Compounds, Total (mg/kg)								
Arsenic	**12**	**1,3**	11.3	NA	11.3	NA	13	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-57045-2
Client Project/Site: IDOT - IL 43 - WO 006
Revision: 1

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

Attn: Mike Nelson

Authorized for release by:
5/31/2013 3:23:31 PM

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

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-2

Client Sample ID: 2181-14-B01
Date Collected: 05/15/13 09:15
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-8
Matrix: Solid
Percent Solids: 77.3

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	☼	05/15/13 09:15	05/17/13 16:55	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Vinyl acetate	<0.0049		0.0049	0.00077	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	05/15/13 09:15	05/17/13 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 122*	*05/15/13 09:15*	*05/17/13 16:55*	*1*
Dibromofluoromethane	*104*		*75 - 120*	*05/15/13 09:15*	*05/17/13 16:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*05/15/13 09:15*	*05/17/13 16:55*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*	*05/15/13 09:15*	*05/17/13 16:55*	*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	☼	05/16/13 17:06	05/23/13 01:31	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.060	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-2

Client Sample ID: 2181-14-B01
Date Collected: 05/15/13 09:15
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-8
Matrix: Solid
Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
2-Methylphenol	<0.21		0.21	0.054	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Hexachloroethane	<0.21		0.21	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
2-Chlorophenol	<0.21		0.21	0.058	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Isophorone	<0.21		0.21	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Hexachlorobutadiene	<0.21		0.21	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
2,4,6-Trichlorophenol	<0.41		0.41	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
2-Nitroaniline	<0.21		0.21	0.073	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
2,4-Dinitrophenol	<0.82	*	0.82	0.21	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Acenaphthylene	<0.041		0.041	0.0094	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
4-Nitroaniline	<0.41	*	0.41	0.084	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Diethyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.064	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
N-Nitrosodiphenylamine	<0.21		0.21	0.055	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.099	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Anthracene	<0.041		0.041	0.0096	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Carbazole	<0.21		0.21	0.057	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Di-n-butyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Fluoranthene	**0.017**	**J**	0.041	0.017	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Benzo[a]anthracene	<0.041		0.041	0.0085	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1

Client Sample ID: 2181-14-B01
Date Collected: 05/15/13 09:15
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-8
Matrix: Solid
Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.0095**	**J**	0.041	0.0092	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Benzo[b]fluoranthene	**0.013**	**J**	0.041	0.0079	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Benzo[k]fluoranthene	<0.041		0.041	0.0097	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Benzo[a]pyrene	<0.041		0.041	0.0074	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
Benzo[g,h,i]perylene	**0.014**	**J**	0.041	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1
3 & 4 Methylphenol	<0.21		0.21	0.077	mg/Kg	☼	05/16/13 17:06	05/23/13 01:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*45*		*30 - 110*	*05/16/13 17:06*	*05/23/13 01:31*	*1*
Phenol-d5	*50*		*31 - 110*	*05/16/13 17:06*	*05/23/13 01:31*	*1*
Nitrobenzene-d5	*52*		*30 - 115*	*05/16/13 17:06*	*05/23/13 01:31*	*1*
2-Fluorobiphenyl	*50*		*30 - 119*	*05/16/13 17:06*	*05/23/13 01:31*	*1*
2,4,6-Tribromophenol	*63*		*35 - 137*	*05/16/13 17:06*	*05/23/13 01:31*	*1*
Terphenyl-d14	*51*		*36 - 134*	*05/16/13 17:06*	*05/23/13 01:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Arsenic	**12**		0.62	0.12	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Barium	**42**	**B**	0.62	0.066	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Beryllium	**0.76**		0.25	0.022	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Boron	**7.7**		3.1	0.13	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Cadmium	**0.20**		0.12	0.016	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Calcium	**28000**	**B**	12	3.3	mg/Kg	☼	05/24/13 15:00	05/25/13 17:39	1
Chromium	**17**		0.62	0.072	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Cobalt	**12**		0.31	0.022	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Copper	**27**		0.62	0.055	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Iron	**43000**		12	5.1	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Lead	**15**		0.31	0.093	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Magnesium	**20000**	**B**	6.1	1.2	mg/Kg	☼	05/24/13 15:00	05/25/13 17:39	1
Manganese	**360**		0.62	0.034	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Nickel	**24**		0.62	0.061	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Potassium	**1600**		31	1.9	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Selenium	<0.62		0.62	0.22	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Sodium	**270**		62	8.3	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Thallium	**0.45**	**J**	0.62	0.26	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Vanadium	**27**		0.31	0.046	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1
Zinc	**56**	**B**	1.2	0.25	mg/Kg	☼	05/16/13 09:12	05/24/13 05:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/30/13 21:15	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-2

Client Sample ID: 2181-14-B01
Date Collected: 05/15/13 09:15
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.062	J	0.50	0.010	mg/L		05/17/13 08:45	05/24/13 02:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 08:45	05/24/13 02:39	1
Boron	0.45		0.10	0.050	mg/L		05/17/13 08:45	05/24/13 02:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 08:45	05/24/13 02:39	1
Chromium	0.018	J	0.025	0.010	mg/L		05/17/13 08:45	05/24/13 02:39	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 02:39	1
Iron	13		0.20	0.20	mg/L		05/17/13 08:45	05/24/13 02:39	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/17/13 08:45	05/24/13 02:39	1
Manganese	0.046		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 02:39	1
Nickel	0.011	J	0.025	0.010	mg/L		05/17/13 08:45	05/24/13 02:39	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 08:45	05/24/13 02:39	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 02:39	1
Zinc	0.030	J	0.10	0.020	mg/L		05/17/13 08:45	05/24/13 02:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 08:45	05/28/13 15:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 08:45	05/28/13 15:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000047	J	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0087	mg/Kg	☼	05/16/13 15:20	05/20/13 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.02		0.200	0.200	SU			05/21/13 13:54	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-2

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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)

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: I 55 COOK CO Project No.: IDOT 2013-006 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:**

COC No.: 2 of 8

Lab Job No.: 500-57045-2

Sample Temp: 3.8, 3.5, 3.7

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If ~~Total metal result exceeds MAC AND~~ SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
8	2181-14-B01	5/14	9:15	S	✓	✓					✓	✓	✓	✓						0-2'

Relinquished by:	Date/Time 16:10 5/15/13	Received by:	Date/Time 16:10 / 5-15-13
Relinquished by: 5-15-13	Date/Time 1614	Received by:	Date/Time 5/16/13 0700
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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 348 (IL 43) Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
4635 South Harlem Avenue

City: Forest View State: IL Zip Code: 60402

County: Cook Township: Stickney

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

Latitude: 41.80745 (Decimal Degrees) Longitude: -87.80188 (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☒ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: Il	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847.705.4101	Zip Code:	60196-1096 Phone: 847.705.4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 348 (IL 43)

Latitude: 41.80745 Longitude: -87.80188

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 2181-15-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 2181-15. SEE FIGURE 2 AND TABLE 3i OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID: 500-57045-7

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:

12/24/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
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 2181-15
Industrial Building

Sample ID	2181-15-B01	[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)	0-2						
Sample Date	5/15/2013						
PID	0						
Sample pH	8.07						
Matrix	Soil						
No Contaminants of Concern Noted.							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-57045-7
Client Project/Site: IDOT - IL 43 - WO 006

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

Attn: Mike Nelson

Authorized for release by:
5/31/2013 10:18:29 AM

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

Client Sample ID: 2181-15-B01
Date Collected: 05/15/13 10:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-36
Matrix: Solid
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.017**		0.0045	0.0019	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
2-Butanone (MEK)	**0.0040**	**J**	0.0045	0.0016	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	05/15/13 10:30	05/20/13 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*	*05/15/13 10:30*	*05/20/13 18:51*	*1*
Dibromofluoromethane	*99*		*75 - 120*	*05/15/13 10:30*	*05/20/13 18:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*05/15/13 10:30*	*05/20/13 18:51*	*1*
Toluene-d8 (Surr)	*108*		*75 - 122*	*05/15/13 10:30*	*05/20/13 18:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-7

Client Sample ID: 2181-15-B01
Date Collected: 05/15/13 10:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-36
Matrix: Solid
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Phenanthrene	**0.044**		0.038	0.016	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Fluoranthene	**0.031**	**J**	0.038	0.016	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Pyrene	**0.036**	**J**	0.038	0.014	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1

Client Sample ID: 2181-15-B01
Date Collected: 05/15/13 10:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-36
Matrix: Solid
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.033	J	0.038	0.0087	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Benzo[a]pyrene	0.020	J	0.038	0.0070	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Indeno[1,2,3-cd]pyrene	0.013	J	0.038	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
Benzo[g,h,i]perylene	0.047		0.038	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	05/20/13 07:24	05/30/13 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*64*		*30 - 110*	*05/20/13 07:24*	*05/30/13 15:22*	*1*
Phenol-d5	*67*		*31 - 110*	*05/20/13 07:24*	*05/30/13 15:22*	*1*
Nitrobenzene-d5	*68*		*30 - 115*	*05/20/13 07:24*	*05/30/13 15:22*	*1*
2-Fluorobiphenyl	*67*		*30 - 119*	*05/20/13 07:24*	*05/30/13 15:22*	*1*
2,4,6-Tribromophenol	*71*		*35 - 137*	*05/20/13 07:24*	*05/30/13 15:22*	*1*
Terphenyl-d14	*68*		*36 - 134*	*05/20/13 07:24*	*05/30/13 15:22*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Arsenic	10		0.59	0.12	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Barium	18	B	0.59	0.063	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Beryllium	0.45		0.24	0.021	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Boron	10		3.0	0.12	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Cadmium	0.20		0.12	0.015	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Calcium	50000	B	12	3.2	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Chromium	13		0.59	0.069	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Cobalt	13		0.30	0.021	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Copper	33		0.59	0.053	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Iron	18000		12	4.9	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Lead	15		0.30	0.088	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Magnesium	31000	B	5.9	1.2	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Manganese	490	B	0.59	0.032	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Nickel	27		0.59	0.058	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Potassium	1700		30	1.8	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Sodium	280		59	7.9	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Thallium	0.94		0.59	0.25	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Vanadium	14		0.30	0.044	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1
Zinc	49		1.2	0.24	mg/Kg	☼	05/16/13 09:40	05/24/13 04:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.036	J	0.50	0.010	mg/L		05/17/13 13:00	05/22/13 06:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 13:00	05/22/13 06:59	1
Boron	1.2		0.10	0.050	mg/L		05/17/13 13:00	05/22/13 06:59	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-7

Client Sample ID: 2181-15-B01
Date Collected: 05/15/13 10:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-36
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 13:00	05/22/13 06:59	1
Chromium	<0.025		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:59	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 06:59	1
Iron	**0.42**		0.20	0.20	mg/L		05/17/13 13:00	05/22/13 06:59	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/17/13 13:00	05/22/13 06:59	1
Manganese	**0.10**		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:59	1
Nickel	<0.025		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:59	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 13:00	05/22/13 06:59	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 06:59	1
Zinc	**0.035**	**J B**	0.10	0.020	mg/L		05/17/13 13:00	05/22/13 06:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 13:00	05/28/13 16:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 13:00	05/28/13 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00018**	**J B**	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 13:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.087**		0.018	0.0084	mg/Kg	☼	05/16/13 15:20	05/20/13 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.07**		0.200	0.200	SU			05/21/13 15:00	1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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)

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: I 55 COOK CO Project No.: IDOT 2013-006 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:**

COC No.: 8 of 8

Lab Job No.: 500-57045-7

Sample Temp: 3.8, 3.5, 3.7

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If ~~Total metal result exceeds MAC *AND*~~ SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Matrix Key:

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
36	2181-15-B01	5/15	10:30	S	✓	✓					✓	✓	✓	✓						0'-2'
37	2181-15-B02	5/15	10:25	S	✓	✓					✓	✓	✓	✓						0-2'

Relinquished by: [signature]	Date/Time 5/15/13 16:10	Received by: [signature]	Date/Time 5-15-13/1610
Relinquished by: [signature] 5-15-13	Date/Time 1714	Received by: [signature]	Date/Time 5/16/13 0700
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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 348 (IL 43) Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
4700 Block of South Harlem Avenue

City: Forest View & Lyons State: IL Zip Code: 60402 & 60534

County: Cook Township: Lyons & Stickney

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

Latitude: 41.80703 (Decimal Degrees) Longitude: -87.80197 (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☒ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: Il	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847.705.4101	Zip Code:	60196-1096 Phone: 847.705.4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 348 (IL 43)

Latitude: 41.80703 Longitude: -87.80197

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 2181-16-B01, -B02, -B03 AND -B04 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2181-16. SEE FIGURE 2 AND TABLE 3j OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID: 500-57045-3

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:

12/24/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
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 2181-16

Transportation/utility corridor

Sample ID	2181-16-B01-1		2181-16-B01-2		2181-16-B02-1		2181-16-B02-2		2181-16-B03-1		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-6		6-12		0-6		6-12		0-6							
Sample Date	5/15/2013		5/15/2013		5/15/2013		5/15/2013		5/15/2013							
PID	0		0		0		0		0							
Sample pH	7.81		7.75		7.72		7.72		7.44							
Matrix	Soil		Soil		Soil		Soil		Soil							
Inorganic Compounds, Total (mg/kg)																
Arsenic	**7.9**		**11**		**11**		**8.5**		**4.6**		11.3	NA	11.3	NA	13	NA

Sample ID	2181-16-B03-2		2181-16-B04-1		2181-16-B04-1 DUP		2181-16-B04-2		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	6-12		0-6		0-6		6-12							
Sample Date	5/15/2013		5/15/2013		5/15/2013		5/15/2013							
PID	0		0		0		0							
Sample pH	7.77		7.8		7.86		7.76							
Matrix	Soil		Soil		Soil		Soil							
Inorganic Compounds, Total (mg/kg)														
Arsenic	**3**		**6.2**		**7.4**		**13**	**1,3**	11.3	NA	11.3	NA	13	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-57045-3
Client Project/Site: IDOT - IL 43 - WO 006
Revision: 1

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

Attn: Mike Nelson

Authorized for release by:
5/31/2013 3:25:13 PM

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

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-3

Client Sample ID: 2181-16-B01-1
Date Collected: 05/15/13 13:20
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-9
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Bromoform	<0.0042		0.0042	0.00097	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
1,1-Dichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Vinyl acetate	<0.0042		0.0042	0.00066	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	05/15/13 13:20	05/17/13 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*	*05/15/13 13:20*	*05/17/13 17:19*	*1*
Dibromofluoromethane	*98*		*75 - 120*	*05/15/13 13:20*	*05/17/13 17:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*	*05/15/13 13:20*	*05/17/13 17:19*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*	*05/15/13 13:20*	*05/17/13 17:19*	*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	☼	05/16/13 17:06	05/23/13 01:51	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1

Client Sample ID: 2181-16-B01-1
Date Collected: 05/15/13 13:20
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-9
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
2-Methylnaphthalene	**0.11**	**J**	0.18	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
2-Nitrophenol	<0.36		0.36	0.058	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
2,4-Dinitrophenol	<0.74	*	0.74	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
4-Nitroaniline	<0.36	*	0.36	0.075	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Phenanthrene	**0.12**		0.036	0.015	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Anthracene	**0.017**	**J**	0.036	0.0086	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Fluoranthene	**0.081**		0.036	0.015	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Pyrene	**0.074**		0.036	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Benzo[a]anthracene	**0.038**		0.036	0.0077	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1

Client Sample ID: 2181-16-B01-1
Date Collected: 05/15/13 13:20
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-9
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.062		0.036	0.0083	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Benzo[b]fluoranthene	0.055		0.036	0.0071	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Benzo[k]fluoranthene	0.027	J	0.036	0.0087	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Benzo[a]pyrene	0.040		0.036	0.0067	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Indeno[1,2,3-cd]pyrene	0.026	J	0.036	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Dibenz(a,h)anthracene	0.011	J	0.036	0.010	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
Benzo[g,h,i]perylene	0.044		0.036	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	05/16/13 17:06	05/23/13 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*52*		*30 - 110*	*05/16/13 17:06*	*05/23/13 01:51*	*1*
Phenol-d5	*59*		*31 - 110*	*05/16/13 17:06*	*05/23/13 01:51*	*1*
Nitrobenzene-d5	*57*		*30 - 115*	*05/16/13 17:06*	*05/23/13 01:51*	*1*
2-Fluorobiphenyl	*57*		*30 - 119*	*05/16/13 17:06*	*05/23/13 01:51*	*1*
2,4,6-Tribromophenol	*52*		*35 - 137*	*05/16/13 17:06*	*05/23/13 01:51*	*1*
Terphenyl-d14	*57*		*36 - 134*	*05/16/13 17:06*	*05/23/13 01:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Arsenic	7.9		0.56	0.11	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Barium	22	B	0.56	0.060	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Beryllium	0.51		0.23	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Boron	16		2.8	0.12	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Cadmium	0.22		0.11	0.014	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Calcium	51000	B	11	2.9	mg/Kg	☼	05/24/13 15:00	05/25/13 17:45	1
Chromium	12		0.56	0.065	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Cobalt	9.3		0.28	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Copper	27		0.56	0.050	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Iron	16000		11	4.6	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Lead	21		0.28	0.084	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Magnesium	29000	B	5.3	1.1	mg/Kg	☼	05/24/13 15:00	05/25/13 17:45	1
Manganese	280		0.56	0.031	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Nickel	23		0.56	0.055	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Potassium	2600		28	1.7	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Sodium	190		56	7.6	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Thallium	0.57		0.56	0.24	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Vanadium	15		0.28	0.042	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1
Zinc	38	B	1.1	0.23	mg/Kg	☼	05/16/13 09:12	05/24/13 05:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.044	J	0.50	0.010	mg/L		05/17/13 08:45	05/24/13 02:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 08:45	05/24/13 02:51	1
Boron	0.55		0.10	0.050	mg/L		05/17/13 08:45	05/24/13 02:51	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-3

Client Sample ID: 2181-16-B01-1
Date Collected: 05/15/13 13:20
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 08:45	05/24/13 02:51	1
Chromium	<0.025		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 02:51	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 02:51	1
Iron	**1.6**		0.20	0.20	mg/L		05/17/13 08:45	05/24/13 02:51	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/17/13 08:45	05/24/13 02:51	1
Manganese	**0.059**		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 02:51	1
Nickel	<0.025		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 02:51	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 08:45	05/24/13 02:51	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 02:51	1
Zinc	<0.10		0.10	0.020	mg/L		05/17/13 08:45	05/24/13 02:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 08:45	05/28/13 15:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 08:45	05/28/13 15:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000069**	**J**	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 11:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.038**		0.019	0.0088	mg/Kg	☼	05/16/13 15:20	05/20/13 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.81**		0.200	0.200	SU			05/21/13 13:56	1

Client Sample ID: 2181-16-B01-2
Date Collected: 05/15/13 13:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-10
Matrix: Solid
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.26		0.26	0.069	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Benzene	<0.013		0.013	0.0039	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Bromodichloromethane	<0.11		0.11	0.018	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Bromoform	<0.11		0.11	0.023	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Bromomethane	<0.11		0.11	0.036	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
2-Butanone (MEK)	<0.26		0.26	0.078	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Carbon disulfide	<0.26		0.26	0.023	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Carbon tetrachloride	<0.053		0.053	0.014	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Chlorobenzene	<0.053		0.053	0.0076	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Chloroethane	<0.11		0.11	0.023	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Chloroform	<0.053		0.053	0.011	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Chloromethane	<0.11		0.11	0.024	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
cis-1,2-Dichloroethene	<0.053		0.053	0.0065	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
cis-1,3-Dichloropropene	<0.053		0.053	0.0094	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Dibromochloromethane	<0.11		0.11	0.018	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
1,1-Dichloroethane	<0.053		0.053	0.0098	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
1,2-Dichloroethane	<0.053		0.053	0.015	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
1,1-Dichloroethene	<0.053		0.053	0.016	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
1,2-Dichloropropane	<0.053		0.053	0.010	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
1,3-Dichloropropene, Total	<0.053		0.053	0.0094	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Ethylbenzene	<0.013		0.013	0.0067	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
2-Hexanone	<0.26		0.26	0.030	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Methylene Chloride	<0.26		0.26	0.036	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
4-Methyl-2-pentanone (MIBK)	<0.26		0.26	0.018	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Methyl tert-butyl ether	<0.11		0.11	0.023	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Styrene	<0.053		0.053	0.0052	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
1,1,2,2-Tetrachloroethane	<0.053		0.053	0.012	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Tetrachloroethene	<0.053		0.053	0.0088	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Toluene	<0.013		0.013	0.0061	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
trans-1,2-Dichloroethene	<0.053		0.053	0.013	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
trans-1,3-Dichloropropene	<0.053		0.053	0.011	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
1,1,1-Trichloroethane	<0.053		0.053	0.011	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
1,1,2-Trichloroethane	<0.053		0.053	0.015	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Trichloroethene	<0.026		0.026	0.0098	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Vinyl acetate	<0.11		0.11	0.018	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Vinyl chloride	<0.013		0.013	0.0055	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50
Xylenes, Total	**0.046**		0.026	0.0036	mg/Kg	☼	05/15/13 13:30	05/22/13 15:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*	*05/15/13 13:30*	*05/22/13 15:59*	*50*
Dibromofluoromethane	*100*		*75 - 120*	*05/15/13 13:30*	*05/22/13 15:59*	*50*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 125*	*05/15/13 13:30*	*05/22/13 15:59*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*05/15/13 13:30*	*05/22/13 15:59*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1

Client Sample ID: 2181-16-B01-2
Date Collected: 05/15/13 13:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-10
Matrix: Solid
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
2-Methylnaphthalene	**0.17**	**J**	0.19	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
2,4-Dinitrophenol	<0.74	*	0.74	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
2,4-Dinitrotoluene	<0.19		0.19	0.056	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
4-Nitroaniline	<0.37	*	0.37	0.076	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Hexachlorobenzene	<0.074		0.074	0.0073	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Diethyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Phenanthrene	**0.11**		0.037	0.015	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Pyrene	**0.013**	**J**	0.037	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1

Client Sample ID: 2181-16-B01-2
Date Collected: 05/15/13 13:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-10
Matrix: Solid
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.032**	**J**	0.037	0.0083	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
Benzo[g,h,i]perylene	**0.027**	**J**	0.037	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	05/16/13 17:06	05/23/13 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*51*		*30 - 110*	*05/16/13 17:06*	*05/23/13 02:11*	*1*
Phenol-d5	*54*		*31 - 110*	*05/16/13 17:06*	*05/23/13 02:11*	*1*
Nitrobenzene-d5	*55*		*30 - 115*	*05/16/13 17:06*	*05/23/13 02:11*	*1*
2-Fluorobiphenyl	*56*		*30 - 119*	*05/16/13 17:06*	*05/23/13 02:11*	*1*
2,4,6-Tribromophenol	*47*		*35 - 137*	*05/16/13 17:06*	*05/23/13 02:11*	*1*
Terphenyl-d14	*58*		*36 - 134*	*05/16/13 17:06*	*05/23/13 02:11*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Arsenic	**11**		0.57	0.11	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Barium	**30**	**B**	0.57	0.061	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Beryllium	**0.68**		0.23	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Boron	**16**		2.8	0.12	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Cadmium	**0.22**		0.11	0.014	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Calcium	**40000**	**B**	11	3.0	mg/Kg	☼	05/24/13 15:00	05/25/13 17:51	1
Chromium	**17**		0.57	0.066	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Cobalt	**13**		0.28	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Copper	**33**		0.57	0.050	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Iron	**22000**		11	4.7	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Lead	**16**		0.28	0.085	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Magnesium	**23000**	**B**	5.6	1.2	mg/Kg	☼	05/24/13 15:00	05/25/13 17:51	1
Manganese	**370**		0.57	0.031	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Nickel	**32**		0.57	0.056	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Potassium	**3200**		28	1.7	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Sodium	**200**		57	7.6	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Thallium	**1.2**		0.57	0.24	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Vanadium	**19**		0.28	0.042	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1
Zinc	**55**	**B**	1.1	0.23	mg/Kg	☼	05/16/13 09:12	05/24/13 05:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.046**	**J**	0.50	0.010	mg/L		05/17/13 08:45	05/24/13 02:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 08:45	05/24/13 02:55	1
Boron	**0.58**		0.10	0.050	mg/L		05/17/13 08:45	05/24/13 02:55	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-3

Client Sample ID: 2181-16-B01-2
Date Collected: 05/15/13 13:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 08:45	05/24/13 02:55	1
Chromium	**0.016**	**J**	0.025	0.010	mg/L		05/17/13 08:45	05/24/13 02:55	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 02:55	1
Iron	**1.8**		0.20	0.20	mg/L		05/17/13 08:45	05/24/13 02:55	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/17/13 08:45	05/24/13 02:55	1
Manganese	**0.065**		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 02:55	1
Nickel	<0.025		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 02:55	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 08:45	05/24/13 02:55	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 02:55	1
Zinc	<0.10		0.10	0.020	mg/L		05/17/13 08:45	05/24/13 02:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0035**	**J B**	0.0060	0.0030	mg/L		05/17/13 08:45	05/28/13 15:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 08:45	05/28/13 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000062**	**J**	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 11:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.017	0.0082	mg/Kg	☼	05/16/13 15:20	05/20/13 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.75**		0.200	0.200	SU			05/21/13 13:59	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-3

Client Sample ID: 2181-16-B02-1
Date Collected: 05/15/13 10:10
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-11
Matrix: Solid
Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
1,1-Dichloroethene	<0.0043		0.0043	0.00069	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Vinyl acetate	<0.0043		0.0043	0.00068	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	05/15/13 10:10	05/20/13 11:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*	*05/15/13 10:10*	*05/20/13 11:21*	*1*
Dibromofluoromethane	*99*		*75 - 120*	*05/15/13 10:10*	*05/20/13 11:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*05/15/13 10:10*	*05/20/13 11:21*	*1*
Toluene-d8 (Surr)	*104*		*75 - 122*	*05/15/13 10:10*	*05/20/13 11:21*	*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	☼	05/16/13 17:06	05/23/13 02:31	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-3

Client Sample ID: 2181-16-B02-1
Date Collected: 05/15/13 10:10
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-11
Matrix: Solid
Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Hexachlorocyclopentadiene	<0.72		0.72	0.16	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
2-Methylnaphthalene	**0.073**	**J**	0.18	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
3-Nitroaniline	<0.35		0.35	0.069	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
2,4-Dinitrophenol	<0.72	*	0.72	0.18	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Acenaphthylene	<0.035		0.035	0.0082	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
4-Nitroaniline	<0.35	*	0.35	0.073	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Phenanthrene	**0.11**		0.035	0.015	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Anthracene	<0.035		0.035	0.0084	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Benzo[a]anthracene	<0.035		0.035	0.0074	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1

Client Sample ID: 2181-16-B02-1
Date Collected: 05/15/13 10:10
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-11
Matrix: Solid
Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.026**	**J**	0.035	0.0080	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Benzo[b]fluoranthene	<0.035		0.035	0.0069	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Benzo[k]fluoranthene	<0.035		0.035	0.0085	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Benzo[a]pyrene	<0.035		0.035	0.0065	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
Benzo[g,h,i]perylene	**0.028**	**J**	0.035	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	05/16/13 17:06	05/23/13 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*53*		*30 - 110*	*05/16/13 17:06*	*05/23/13 02:31*	*1*
Phenol-d5	*56*		*31 - 110*	*05/16/13 17:06*	*05/23/13 02:31*	*1*
Nitrobenzene-d5	*57*		*30 - 115*	*05/16/13 17:06*	*05/23/13 02:31*	*1*
2-Fluorobiphenyl	*54*		*30 - 119*	*05/16/13 17:06*	*05/23/13 02:31*	*1*
2,4,6-Tribromophenol	*49*		*35 - 137*	*05/16/13 17:06*	*05/23/13 02:31*	*1*
Terphenyl-d14	*54*		*36 - 134*	*05/16/13 17:06*	*05/23/13 02:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Arsenic	**11**		0.55	0.11	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Barium	**20**	**B**	0.55	0.059	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Beryllium	**0.60**		0.22	0.019	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Boron	**12**		2.8	0.12	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Cadmium	**0.23**		0.11	0.014	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Calcium	**40000**	**B**	11	2.9	mg/Kg	☼	05/24/13 15:00	05/25/13 17:57	1
Chromium	**15**		0.55	0.064	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Cobalt	**14**		0.28	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Copper	**33**		0.55	0.049	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Iron	**23000**		11	4.5	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Lead	**16**		0.28	0.082	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Magnesium	**23000**	**B**	5.3	1.1	mg/Kg	☼	05/24/13 15:00	05/25/13 17:57	1
Manganese	**320**		0.55	0.030	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Nickel	**33**		0.55	0.054	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Potassium	**2500**		28	1.7	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Sodium	**140**		55	7.4	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Thallium	**1.1**		0.55	0.23	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Vanadium	**17**		0.28	0.041	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1
Zinc	**49**	**B**	1.1	0.22	mg/Kg	☼	05/16/13 09:12	05/24/13 05:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.036**	**J**	0.50	0.010	mg/L		05/17/13 08:45	05/24/13 03:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 08:45	05/24/13 03:11	1
Boron	**0.56**		0.10	0.050	mg/L		05/17/13 08:45	05/24/13 03:11	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-3

Client Sample ID: 2181-16-B02-1
Date Collected: 05/15/13 10:10
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 08:45	05/24/13 03:11	1
Chromium	<0.025		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:11	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:11	1
Iron	<0.20		0.20	0.20	mg/L		05/17/13 08:45	05/24/13 03:11	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/17/13 08:45	05/24/13 03:11	1
Manganese	**0.086**		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:11	1
Nickel	<0.025		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:11	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 08:45	05/24/13 03:11	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:11	1
Zinc	**0.025**	**J**	0.10	0.020	mg/L		05/17/13 08:45	05/24/13 03:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 08:45	05/28/13 15:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 08:45	05/28/13 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000067**	**J**	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 11:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.017	0.0081	mg/Kg	☼	05/16/13 15:20	05/20/13 10:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.72**		0.200	0.200	SU			05/21/13 14:01	1

Client Sample ID: 2181-16-B02-2
Date Collected: 05/15/13 10:15
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-12
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.29		0.29	0.074	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Benzene	<0.014		0.014	0.0042	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Bromodichloromethane	<0.11		0.11	0.019	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Bromoform	<0.11		0.11	0.025	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Bromomethane	<0.11		0.11	0.039	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
2-Butanone (MEK)	<0.29		0.29	0.084	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Carbon disulfide	<0.29		0.29	0.024	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Carbon tetrachloride	<0.057		0.057	0.015	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Chlorobenzene	<0.057		0.057	0.0082	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Chloroethane	<0.11		0.11	0.025	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Chloroform	<0.057		0.057	0.012	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Chloromethane	<0.11		0.11	0.026	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
cis-1,2-Dichloroethene	<0.057		0.057	0.0070	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
cis-1,3-Dichloropropene	<0.057		0.057	0.010	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Dibromochloromethane	<0.11		0.11	0.020	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
1,1-Dichloroethane	<0.057		0.057	0.011	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
1,2-Dichloroethane	<0.057		0.057	0.016	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
1,1-Dichloroethene	<0.057		0.057	0.018	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
1,2-Dichloropropane	<0.057		0.057	0.011	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
1,3-Dichloropropene, Total	<0.057		0.057	0.010	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Ethylbenzene	<0.014		0.014	0.0072	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
2-Hexanone	<0.29		0.29	0.032	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Methylene Chloride	<0.29		0.29	0.039	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
4-Methyl-2-pentanone (MIBK)	<0.29		0.29	0.019	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Methyl tert-butyl ether	<0.11		0.11	0.025	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Styrene	<0.057		0.057	0.0056	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
1,1,2,2-Tetrachloroethane	<0.057		0.057	0.013	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Tetrachloroethene	<0.057		0.057	0.0095	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Toluene	<0.014		0.014	0.0066	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
trans-1,2-Dichloroethene	<0.057		0.057	0.014	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
trans-1,3-Dichloropropene	<0.057		0.057	0.012	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
1,1,1-Trichloroethane	<0.057		0.057	0.011	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
1,1,2-Trichloroethane	<0.057		0.057	0.016	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Trichloroethene	<0.029		0.029	0.011	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Vinyl acetate	<0.11		0.11	0.019	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Vinyl chloride	<0.014		0.014	0.0059	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50
Xylenes, Total	**0.023**	**J**	0.029	0.0039	mg/Kg	☼	05/15/13 10:15	05/22/13 16:23	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*	*05/15/13 10:15*	*05/22/13 16:23*	*50*
Dibromofluoromethane	*98*		*75 - 120*	*05/15/13 10:15*	*05/22/13 16:23*	*50*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 125*	*05/15/13 10:15*	*05/22/13 16:23*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*05/15/13 10:15*	*05/22/13 16:23*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1

Client Sample ID: 2181-16-B02-2
Date Collected: 05/15/13 10:15
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-12
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
2,4-Dichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
2,4,6-Trichlorophenol	<0.38		0.38	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
2-Methylnaphthalene	**0.057**	**J**	0.19	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
2,4-Dinitrophenol	<0.76	*	0.76	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
4-Nitroaniline	<0.38	*	0.38	0.077	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Phenanthrene	**0.084**		0.038	0.016	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Fluoranthene	<0.038		0.038	0.015	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1

Client Sample ID: 2181-16-B02-2
Date Collected: 05/15/13 10:15
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-12
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.020**	**J**	0.038	0.0085	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Benzo[b]fluoranthene	<0.038		0.038	0.0073	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
Benzo[g,h,i]perylene	**0.016**	**J**	0.038	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	05/16/13 17:06	05/23/13 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*40*		*30 - 110*	*05/16/13 17:06*	*05/23/13 02:52*	*1*
Phenol-d5	*42*		*31 - 110*	*05/16/13 17:06*	*05/23/13 02:52*	*1*
Nitrobenzene-d5	*41*		*30 - 115*	*05/16/13 17:06*	*05/23/13 02:52*	*1*
2-Fluorobiphenyl	*43*		*30 - 119*	*05/16/13 17:06*	*05/23/13 02:52*	*1*
2,4,6-Tribromophenol	*34*	*X*	*35 - 137*	*05/16/13 17:06*	*05/23/13 02:52*	*1*
Terphenyl-d14	*45*		*36 - 134*	*05/16/13 17:06*	*05/23/13 02:52*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Arsenic	**8.5**		0.56	0.11	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Barium	**35**	**B**	0.56	0.060	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Beryllium	**0.66**		0.23	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Boron	**15**		2.8	0.12	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Cadmium	**0.12**		0.11	0.014	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Calcium	**40000**	**B**	11	3.0	mg/Kg	☼	05/24/13 15:00	05/25/13 18:04	1
Chromium	**17**		0.56	0.065	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Cobalt	**11**		0.28	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Copper	**31**		0.56	0.050	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Iron	**20000**		11	4.6	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Lead	**14**		0.28	0.084	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Magnesium	**23000**	**B**	5.6	1.2	mg/Kg	☼	05/24/13 15:00	05/25/13 18:04	1
Manganese	**340**		0.56	0.031	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Nickel	**29**		0.56	0.055	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Potassium	**3000**		28	1.7	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Sodium	**180**		56	7.5	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Thallium	**0.75**		0.56	0.24	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Vanadium	**18**		0.28	0.042	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1
Zinc	**43**	**B**	1.1	0.23	mg/Kg	☼	05/16/13 09:12	05/24/13 05:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.040**	**J**	0.50	0.010	mg/L		05/17/13 08:45	05/24/13 03:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 08:45	05/24/13 03:15	1
Boron	**0.54**		0.10	0.050	mg/L		05/17/13 08:45	05/24/13 03:15	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-3

Client Sample ID: 2181-16-B02-2
Date Collected: 05/15/13 10:15
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 08:45	05/24/13 03:15	1
Chromium	**0.011**	**J**	0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:15	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:15	1
Iron	**0.87**		0.20	0.20	mg/L		05/17/13 08:45	05/24/13 03:15	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/17/13 08:45	05/24/13 03:15	1
Manganese	**0.062**		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:15	1
Nickel	**0.027**		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:15	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 08:45	05/24/13 03:15	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:15	1
Zinc	<0.10		0.10	0.020	mg/L		05/17/13 08:45	05/24/13 03:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 08:45	05/28/13 15:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 08:45	05/28/13 15:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000034**	**J**	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.017	0.0080	mg/Kg	☼	05/16/13 15:20	05/20/13 10:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.72**		0.200	0.200	SU			05/21/13 14:04	1

Client Sample ID: 2181-16-B03-1
Date Collected: 05/15/13 11:15
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-13
Matrix: Solid
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.033**		0.0063	0.0027	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Benzene	<0.0063		0.0063	0.00086	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Bromodichloromethane	<0.0063		0.0063	0.0011	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Bromoform	<0.0063		0.0063	0.0014	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Bromomethane	<0.0063		0.0063	0.0019	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
2-Butanone (MEK)	**0.010**		0.0063	0.0023	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Carbon disulfide	<0.0063		0.0063	0.00094	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Carbon tetrachloride	<0.0063		0.0063	0.0011	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Chlorobenzene	<0.0063		0.0063	0.00064	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Chloroethane	<0.0063		0.0063	0.0017	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Chloroform	<0.0063		0.0063	0.00072	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Chloromethane	<0.0063		0.0063	0.0013	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
cis-1,2-Dichloroethene	<0.0063		0.0063	0.00089	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
cis-1,3-Dichloropropene	<0.0063		0.0063	0.00083	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Dibromochloromethane	<0.0063		0.0063	0.0011	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
1,1-Dichloroethane	<0.0063		0.0063	0.0010	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
1,2-Dichloroethane	<0.0063		0.0063	0.00093	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
1,1-Dichloroethene	<0.0063		0.0063	0.0010	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
1,2-Dichloropropane	<0.0063		0.0063	0.00096	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
1,3-Dichloropropene, Total	<0.0063		0.0063	0.00083	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Ethylbenzene	<0.0063		0.0063	0.0013	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
2-Hexanone	<0.0063		0.0063	0.0018	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Methylene Chloride	<0.0063		0.0063	0.0017	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
4-Methyl-2-pentanone (MIBK)	<0.0063		0.0063	0.0016	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Methyl tert-butyl ether	<0.0063		0.0063	0.0010	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Styrene	<0.0063		0.0063	0.00083	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
1,1,2,2-Tetrachloroethane	<0.0063		0.0063	0.0013	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Tetrachloroethene	<0.0063		0.0063	0.00096	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Toluene	<0.0063		0.0063	0.00088	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
trans-1,2-Dichloroethene	<0.0063		0.0063	0.00087	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
trans-1,3-Dichloropropene	<0.0063		0.0063	0.0011	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
1,1,1-Trichloroethane	<0.0063		0.0063	0.00094	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
1,1,2-Trichloroethane	<0.0063		0.0063	0.00086	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Trichloroethene	<0.0063		0.0063	0.0010	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Vinyl acetate	<0.0063		0.0063	0.00099	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Vinyl chloride	<0.0063		0.0063	0.0013	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1
Xylenes, Total	<0.013		0.013	0.00057	mg/Kg	☼	05/15/13 11:15	05/20/13 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 122*	*05/15/13 11:15*	*05/20/13 11:44*	*1*
Dibromofluoromethane	*103*		*75 - 120*	*05/15/13 11:15*	*05/20/13 11:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*05/15/13 11:15*	*05/20/13 11:44*	*1*
Toluene-d8 (Surr)	*102*		*75 - 122*	*05/15/13 11:15*	*05/20/13 11:44*	*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	☼	05/16/13 17:06	05/23/13 03:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-3

Client Sample ID: 2181-16-B03-1
Date Collected: 05/15/13 11:15
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-13
Matrix: Solid
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
2,4-Dimethylphenol	<0.40		0.40	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Naphthalene	**0.013**	**J**	0.040	0.0077	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
2,4-Dinitrophenol	<0.80	*	0.80	0.20	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
4-Nitrophenol	<0.80		0.80	0.22	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Fluorene	**0.015**	**J**	0.040	0.0091	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
4-Nitroaniline	<0.40	*	0.40	0.082	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Hexachlorobenzene	<0.080		0.080	0.0079	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Phenanthrene	**0.10**		0.040	0.017	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Anthracene	**0.034**	**J**	0.040	0.0094	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Fluoranthene	**0.15**		0.040	0.016	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Pyrene	**0.11**		0.040	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Benzo[a]anthracene	**0.074**		0.040	0.0084	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1

Client Sample ID: 2181-16-B03-1
Date Collected: 05/15/13 11:15
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-13
Matrix: Solid
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.080**		0.040	0.0090	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Benzo[b]fluoranthene	**0.085**		0.040	0.0077	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Benzo[k]fluoranthene	**0.036**	**J**	0.040	0.0095	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Benzo[a]pyrene	**0.058**		0.040	0.0073	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Indeno[1,2,3-cd]pyrene	**0.036**	**J**	0.040	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Dibenz(a,h)anthracene	**0.015**	**J**	0.040	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
Benzo[g,h,i]perylene	**0.040**		0.040	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	05/16/13 17:06	05/23/13 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*39*		*30 - 110*	*05/16/13 17:06*	*05/23/13 03:12*	*1*
Phenol-d5	*44*		*31 - 110*	*05/16/13 17:06*	*05/23/13 03:12*	*1*
Nitrobenzene-d5	*40*		*30 - 115*	*05/16/13 17:06*	*05/23/13 03:12*	*1*
2-Fluorobiphenyl	*44*		*30 - 119*	*05/16/13 17:06*	*05/23/13 03:12*	*1*
2,4,6-Tribromophenol	*52*		*35 - 137*	*05/16/13 17:06*	*05/23/13 03:12*	*1*
Terphenyl-d14	*45*		*36 - 134*	*05/16/13 17:06*	*05/23/13 03:12*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Arsenic	**4.6**		0.57	0.11	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Barium	**12**	**B**	0.57	0.061	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Beryllium	**0.36**		0.23	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Boron	**4.7**		2.9	0.12	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Cadmium	**0.097**	**J**	0.11	0.015	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Calcium	**19000**	**B**	12	3.3	mg/Kg	☼	05/24/13 15:00	05/25/13 18:25	1
Chromium	**8.3**		0.57	0.067	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Cobalt	**4.7**		0.29	0.021	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Copper	**11**		0.57	0.051	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Iron	**11000**		11	4.7	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Lead	**5.7**		0.29	0.086	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Magnesium	**12000**	**B**	6.0	1.2	mg/Kg	☼	05/24/13 15:00	05/25/13 18:25	1
Manganese	**120**		0.57	0.031	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Nickel	**10**		0.57	0.056	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Potassium	**610**		29	1.7	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Selenium	**0.43**	**J**	0.57	0.20	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Sodium	**84**		57	7.7	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Vanadium	**11**		0.29	0.043	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1
Zinc	**37**	**B**	1.1	0.23	mg/Kg	☼	05/16/13 09:12	05/24/13 06:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/30/13 21:22	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/30/13 09:30	05/30/13 21:22	1
Manganese	**1.6**		0.025	0.010	mg/L		05/30/13 09:30	05/30/13 21:22	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-3

Client Sample ID: 2181-16-B03-1
Date Collected: 05/15/13 11:15
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.080	J	0.50	0.010	mg/L		05/17/13 08:45	05/24/13 03:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 08:45	05/24/13 03:19	1
Boron	0.61		0.10	0.050	mg/L		05/17/13 08:45	05/24/13 03:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 08:45	05/24/13 03:19	1
Chromium	0.029		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:19	1
Cobalt	0.022	J	0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:19	1
Iron	85		0.20	0.20	mg/L		05/17/13 08:45	05/24/13 03:19	1
Lead	0.034		0.0075	0.0050	mg/L		05/17/13 08:45	05/24/13 03:19	1
Manganese	0.51		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:19	1
Nickel	0.038		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:19	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 08:45	05/24/13 03:19	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:19	1
Zinc	0.14		0.10	0.020	mg/L		05/17/13 08:45	05/24/13 03:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 08:45	05/28/13 15:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 08:45	05/28/13 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 11:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.020	0.0094	mg/Kg	☼	05/16/13 15:20	05/20/13 10:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.44		0.200	0.200	SU			05/21/13 14:06	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-3

Client Sample ID: 2181-16-B03-2
Date Collected: 05/15/13 11:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-14
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.26		0.26	0.069	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Benzene	<0.013		0.013	0.0039	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Bromodichloromethane	<0.11		0.11	0.018	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Bromoform	<0.11		0.11	0.023	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Bromomethane	<0.11		0.11	0.036	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
2-Butanone (MEK)	<0.26		0.26	0.078	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Carbon disulfide	<0.26		0.26	0.023	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Carbon tetrachloride	<0.053		0.053	0.014	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Chlorobenzene	<0.053		0.053	0.0076	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Chloroethane	<0.11		0.11	0.023	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Chloroform	<0.053		0.053	0.011	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Chloromethane	<0.11		0.11	0.024	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
cis-1,2-Dichloroethene	<0.053		0.053	0.0065	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
cis-1,3-Dichloropropene	<0.053		0.053	0.0094	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Dibromochloromethane	<0.11		0.11	0.018	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
1,1-Dichloroethane	<0.053		0.053	0.0098	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
1,2-Dichloroethane	<0.053		0.053	0.015	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
1,1-Dichloroethene	<0.053		0.053	0.016	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
1,2-Dichloropropane	<0.053		0.053	0.010	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
1,3-Dichloropropene, Total	<0.053		0.053	0.0094	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Ethylbenzene	<0.013		0.013	0.0067	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
2-Hexanone	<0.26		0.26	0.030	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Methylene Chloride	<0.26		0.26	0.036	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
4-Methyl-2-pentanone (MIBK)	<0.26		0.26	0.018	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Methyl tert-butyl ether	<0.11		0.11	0.023	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Styrene	<0.053		0.053	0.0052	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
1,1,2,2-Tetrachloroethane	<0.053		0.053	0.012	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Tetrachloroethene	<0.053		0.053	0.0088	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Toluene	<0.013		0.013	0.0061	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
trans-1,2-Dichloroethene	<0.053		0.053	0.013	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
trans-1,3-Dichloropropene	<0.053		0.053	0.011	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
1,1,1-Trichloroethane	<0.053		0.053	0.011	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
1,1,2-Trichloroethane	<0.053		0.053	0.015	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Trichloroethene	<0.026		0.026	0.0098	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Vinyl acetate	<0.11		0.11	0.018	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Vinyl chloride	<0.013		0.013	0.0055	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50
Xylenes, Total	<0.026		0.026	0.0036	mg/Kg	☼	05/15/13 11:30	05/22/13 16:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*	*05/15/13 11:30*	*05/22/13 16:47*	*50*
Dibromofluoromethane	*99*		*75 - 120*	*05/15/13 11:30*	*05/22/13 16:47*	*50*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*	*05/15/13 11:30*	*05/22/13 16:47*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*05/15/13 11:30*	*05/22/13 16:47*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1

Client Sample ID: 2181-16-B03-2
Date Collected: 05/15/13 11:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-14
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Naphthalene	**0.024**	**J**	0.038	0.0074	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
2-Methylnaphthalene	**0.068**	**J**	0.19	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
2,4-Dinitrophenol	<0.77	*	0.77	0.20	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
4-Nitroaniline	<0.38	*	0.38	0.078	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Phenanthrene	**0.049**		0.038	0.016	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1

Client Sample ID: 2181-16-B03-2
Date Collected: 05/15/13 11:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-14
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.014**	**J**	0.038	0.0086	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
Benzo[g,h,i]perylene	**0.016**	**J**	0.038	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	05/16/13 17:06	05/23/13 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*43*		*30 - 110*	*05/16/13 17:06*	*05/23/13 03:32*	*1*
Phenol-d5	*47*		*31 - 110*	*05/16/13 17:06*	*05/23/13 03:32*	*1*
Nitrobenzene-d5	*43*		*30 - 115*	*05/16/13 17:06*	*05/23/13 03:32*	*1*
2-Fluorobiphenyl	*43*		*30 - 119*	*05/16/13 17:06*	*05/23/13 03:32*	*1*
2,4,6-Tribromophenol	*55*		*35 - 137*	*05/16/13 17:06*	*05/23/13 03:32*	*1*
Terphenyl-d14	*52*		*36 - 134*	*05/16/13 17:06*	*05/23/13 03:32*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Arsenic	**3.0**		0.54	0.11	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Barium	**23**	**B**	0.54	0.058	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Beryllium	**0.47**		0.22	0.019	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Boron	**9.8**		2.7	0.11	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Cadmium	**0.20**		0.11	0.014	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Calcium	**42000**	**B**	12	3.1	mg/Kg	☼	05/24/13 15:00	05/25/13 18:31	1
Chromium	**11**		0.54	0.063	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Cobalt	**7.0**		0.27	0.019	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Copper	**14**		0.54	0.048	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Iron	**11000**		11	4.5	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Lead	**7.9**		0.27	0.081	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Magnesium	**24000**	**B**	5.8	1.2	mg/Kg	☼	05/24/13 15:00	05/25/13 18:31	1
Manganese	**340**		0.54	0.029	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Nickel	**17**		0.54	0.053	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Potassium	**1600**		27	1.6	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Sodium	**150**		54	7.3	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Thallium	<0.54		0.54	0.23	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Vanadium	**16**		0.27	0.040	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1
Zinc	**38**	**B**	1.1	0.22	mg/Kg	☼	05/16/13 09:12	05/24/13 06:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/30/13 21:28	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/30/13 09:30	05/30/13 21:28	1
Manganese	**3.3**		0.025	0.010	mg/L		05/30/13 09:30	05/30/13 21:28	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-3

Client Sample ID: 2181-16-B03-2
Date Collected: 05/15/13 11:30
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.11	J	0.50	0.010	mg/L		05/17/13 08:45	05/24/13 03:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 08:45	05/24/13 03:23	1
Boron	0.59		0.10	0.050	mg/L		05/17/13 08:45	05/24/13 03:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 08:45	05/24/13 03:23	1
Chromium	0.027		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:23	1
Cobalt	0.011	J	0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:23	1
Iron	14		0.20	0.20	mg/L		05/17/13 08:45	05/24/13 03:23	1
Lead	0.015		0.0075	0.0050	mg/L		05/17/13 08:45	05/24/13 03:23	1
Manganese	0.42		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:23	1
Nickel	0.023	J	0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:23	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 08:45	05/24/13 03:23	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:23	1
Zinc	0.053	J	0.10	0.020	mg/L		05/17/13 08:45	05/24/13 03:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 08:45	05/28/13 15:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 08:45	05/28/13 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000060	J	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 11:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0083	mg/Kg	☼	05/16/13 15:20	05/20/13 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77		0.200	0.200	SU			05/21/13 14:08	1

Client Sample ID: 2181-16-B04-1
Date Collected: 05/15/13 09:45
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-15
Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Vinyl acetate	<0.0044		0.0044	0.00069	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	05/15/13 09:45	05/20/13 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*	*05/15/13 09:45*	*05/20/13 12:08*	*1*
Dibromofluoromethane	*102*		*75 - 120*	*05/15/13 09:45*	*05/20/13 12:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*05/15/13 09:45*	*05/20/13 12:08*	*1*
Toluene-d8 (Surr)	*108*		*75 - 122*	*05/15/13 09:45*	*05/20/13 12:08*	*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	☼	05/16/13 17:06	05/23/13 14:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-3

Client Sample ID: 2181-16-B04-1
Date Collected: 05/15/13 09:45
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-15
Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Naphthalene	<0.039		0.039	0.0077	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
2,4-Dinitrophenol	<0.80	*	0.80	0.20	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
4-Nitroaniline	<0.39	*	0.39	0.081	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Phenanthrene	**0.090**		0.039	0.017	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Anthracene	**0.019**	**J**	0.039	0.0093	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Fluoranthene	**0.18**		0.039	0.016	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Pyrene	**0.13**		0.039	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Benzo[a]anthracene	**0.081**		0.039	0.0083	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1

Client Sample ID: 2181-16-B04-1
Date Collected: 05/15/13 09:45
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-15
Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.10**		0.039	0.0090	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Benzo[b]fluoranthene	**0.12**		0.039	0.0077	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Benzo[k]fluoranthene	**0.040**		0.039	0.0095	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Benzo[a]pyrene	**0.080**		0.039	0.0072	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Indeno[1,2,3-cd]pyrene	**0.056**		0.039	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Dibenz(a,h)anthracene	**0.022**	**J**	0.039	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
Benzo[g,h,i]perylene	**0.073**		0.039	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	05/16/13 17:06	05/23/13 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*24*	*X*	*30 - 110*	*05/16/13 17:06*	*05/23/13 14:17*	*1*
Phenol-d5	*31*		*31 - 110*	*05/16/13 17:06*	*05/23/13 14:17*	*1*
Nitrobenzene-d5	*27*	*X*	*30 - 115*	*05/16/13 17:06*	*05/23/13 14:17*	*1*
2-Fluorobiphenyl	*30*		*30 - 119*	*05/16/13 17:06*	*05/23/13 14:17*	*1*
2,4,6-Tribromophenol	*67*		*35 - 137*	*05/16/13 17:06*	*05/23/13 14:17*	*1*
Terphenyl-d14	*48*		*36 - 134*	*05/16/13 17:06*	*05/23/13 14:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Arsenic	**6.2**		0.59	0.12	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Barium	**94**	**B**	0.59	0.063	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Beryllium	**0.69**		0.24	0.021	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Boron	**11**		2.9	0.12	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Cadmium	**1.0**		0.12	0.015	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Calcium	**100000**	**B**	120	32	mg/Kg	☼	05/24/13 15:00	05/28/13 15:08	10
Chromium	**41**		0.59	0.068	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Cobalt	**8.1**		0.29	0.021	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Copper	**36**		0.59	0.052	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Iron	**19000**		12	4.8	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Lead	**79**		0.29	0.088	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Magnesium	**39000**	**B**	6.0	1.2	mg/Kg	☼	05/24/13 15:00	05/25/13 18:37	1
Manganese	**960**		5.9	0.32	mg/Kg	☼	05/16/13 09:12	05/24/13 16:31	10
Nickel	**29**		0.59	0.058	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Potassium	**1400**		29	1.8	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Selenium	**0.42**	**J**	0.59	0.21	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Silver	**0.10**	**J**	0.29	0.021	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Sodium	**280**		59	7.9	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Thallium	**0.40**	**J**	0.59	0.25	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Vanadium	**22**		0.29	0.044	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1
Zinc	**98**	**B**	1.2	0.24	mg/Kg	☼	05/16/13 09:12	05/24/13 06:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		05/30/13 09:30	05/30/13 21:34	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-3

Client Sample ID: 2181-16-B04-1
Date Collected: 05/15/13 09:45
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.069	J	0.50	0.010	mg/L		05/17/13 08:45	05/24/13 03:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 08:45	05/24/13 03:27	1
Boron	0.56		0.10	0.050	mg/L		05/17/13 08:45	05/24/13 03:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 08:45	05/24/13 03:27	1
Chromium	<0.025		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:27	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:27	1
Iron	4.7		0.20	0.20	mg/L		05/17/13 08:45	05/24/13 03:27	1
Lead	0.014		0.0075	0.0050	mg/L		05/17/13 08:45	05/24/13 03:27	1
Manganese	0.046		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:27	1
Nickel	<0.025		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:27	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 08:45	05/24/13 03:27	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:27	1
Zinc	0.039	J	0.10	0.020	mg/L		05/17/13 08:45	05/24/13 03:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 08:45	05/28/13 15:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 08:45	05/28/13 15:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000063	J	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.020	0.0094	mg/Kg	☼	05/16/13 15:20	05/20/13 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.80		0.200	0.200	SU			05/21/13 14:11	1

Client Sample ID: 2181-16-B04-1 DUP
Date Collected: 05/15/13 09:50
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-16
Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Carbon disulfide	<0.0051		0.0051	0.00076	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00084	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Trichloroethene	<0.0051		0.0051	0.00084	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Vinyl acetate	<0.0051		0.0051	0.00080	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	05/15/13 09:50	05/20/13 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 122*	*05/15/13 09:50*	*05/20/13 12:31*	*1*
Dibromofluoromethane	*101*		*75 - 120*	*05/15/13 09:50*	*05/20/13 12:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*05/15/13 09:50*	*05/20/13 12:31*	*1*
Toluene-d8 (Surr)	*103*		*75 - 122*	*05/15/13 09:50*	*05/20/13 12:31*	*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	☼	05/16/13 17:06	05/23/13 04:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-3

Client Sample ID: 2181-16-B04-1 DUP
Date Collected: 05/15/13 09:50
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-16
Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.052	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
2,4-Dinitrophenol	<0.82	*	0.82	0.21	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
4-Nitroaniline	<0.40	*	0.40	0.083	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Phenanthrene	**0.052**		0.040	0.017	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Anthracene	**0.011**	**J**	0.040	0.0095	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Fluoranthene	**0.11**		0.040	0.017	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Pyrene	**0.083**		0.040	0.015	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Butyl benzyl phthalate	**0.11**	**J**	0.20	0.051	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Benzo[a]anthracene	**0.047**		0.040	0.0085	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1

Client Sample ID: 2181-16-B04-1 DUP
Date Collected: 05/15/13 09:50
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-16
Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.068**		0.040	0.0092	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Bis(2-ethylhexyl) phthalate	**0.37**		0.20	0.054	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Benzo[b]fluoranthene	**0.076**		0.040	0.0079	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Benzo[k]fluoranthene	**0.036**	**J**	0.040	0.0097	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Benzo[a]pyrene	**0.052**		0.040	0.0074	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Indeno[1,2,3-cd]pyrene	**0.038**	**J**	0.040	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Dibenz(a,h)anthracene	**0.012**	**J**	0.040	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
Benzo[g,h,i]perylene	**0.051**		0.040	0.014	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	05/16/13 17:06	05/23/13 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*35*		*30 - 110*	*05/16/13 17:06*	*05/23/13 04:13*	*1*
Phenol-d5	*41*		*31 - 110*	*05/16/13 17:06*	*05/23/13 04:13*	*1*
Nitrobenzene-d5	*33*		*30 - 115*	*05/16/13 17:06*	*05/23/13 04:13*	*1*
2-Fluorobiphenyl	*40*		*30 - 119*	*05/16/13 17:06*	*05/23/13 04:13*	*1*
2,4,6-Tribromophenol	*61*		*35 - 137*	*05/16/13 17:06*	*05/23/13 04:13*	*1*
Terphenyl-d14	*59*		*36 - 134*	*05/16/13 17:06*	*05/23/13 04:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Arsenic	**7.4**		0.61	0.12	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Barium	**60**	**B**	0.61	0.065	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Beryllium	**0.58**		0.24	0.022	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Boron	**9.7**		3.1	0.13	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Cadmium	**0.67**		0.12	0.016	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Calcium	**15000**	**B**	12	3.2	mg/Kg	☼	05/24/13 15:00	05/25/13 18:43	1
Chromium	**20**		0.61	0.071	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Cobalt	**10**		0.31	0.022	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Copper	**33**		0.61	0.054	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Iron	**20000**		12	5.0	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Lead	**36**		0.31	0.091	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Magnesium	**8600**	**B**	5.9	1.2	mg/Kg	☼	05/24/13 15:00	05/25/13 18:43	1
Manganese	**810**		6.1	0.33	mg/Kg	☼	05/16/13 09:12	05/24/13 16:35	10
Nickel	**24**		0.61	0.060	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Potassium	**1400**		31	1.8	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Selenium	<0.61		0.61	0.22	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Silver	**0.074**	**J**	0.31	0.022	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Sodium	**200**		61	8.2	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Thallium	**0.65**		0.61	0.26	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Vanadium	**18**		0.31	0.045	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1
Zinc	**70**	**B**	1.2	0.25	mg/Kg	☼	05/16/13 09:12	05/24/13 06:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/30/13 21:40	1
Lead	**0.0081**		0.0075	0.0050	mg/L		05/30/13 09:30	05/30/13 21:40	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-3

Client Sample ID: 2181-16-B04-1 DUP
Date Collected: 05/15/13 09:50
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.12**	**J**	0.50	0.010	mg/L		05/17/13 08:45	05/24/13 03:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 08:45	05/24/13 03:39	1
Boron	**0.67**		0.10	0.050	mg/L		05/17/13 08:45	05/24/13 03:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 08:45	05/24/13 03:39	1
Chromium	**0.026**		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:39	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:39	1
Iron	**17**		0.20	0.20	mg/L		05/17/13 08:45	05/24/13 03:39	1
Lead	**0.017**		0.0075	0.0050	mg/L		05/17/13 08:45	05/24/13 03:39	1
Manganese	**0.12**		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:39	1
Nickel	**0.019**	**J**	0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:39	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 08:45	05/24/13 03:39	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:39	1
Zinc	**0.083**	**J**	0.10	0.020	mg/L		05/17/13 08:45	05/24/13 03:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 08:45	05/28/13 15:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 08:45	05/28/13 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00027**		0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.059**		0.020	0.0096	mg/Kg	☼	05/16/13 15:20	05/20/13 10:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.86**		0.200	0.200	SU			05/21/13 14:13	1

Client Sample ID: 2181-16-B04-2
Date Collected: 05/15/13 10:00
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-17
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.28		0.28	0.072	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Benzene	<0.014		0.014	0.0041	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Bromodichloromethane	<0.11		0.11	0.019	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Bromoform	<0.11		0.11	0.024	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Bromomethane	<0.11		0.11	0.038	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
2-Butanone (MEK)	<0.28		0.28	0.081	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Carbon disulfide	<0.28		0.28	0.024	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Carbon tetrachloride	<0.055		0.055	0.014	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Chlorobenzene	<0.055		0.055	0.0079	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Chloroethane	<0.11		0.11	0.024	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Chloroform	<0.055		0.055	0.011	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Chloromethane	<0.11		0.11	0.026	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
cis-1,2-Dichloroethene	<0.055		0.055	0.0068	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
cis-1,3-Dichloropropene	<0.055		0.055	0.0099	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Dibromochloromethane	<0.11		0.11	0.019	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
1,1-Dichloroethane	<0.055		0.055	0.010	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
1,2-Dichloroethane	<0.055		0.055	0.016	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
1,1-Dichloroethene	<0.055		0.055	0.017	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
1,2-Dichloropropane	<0.055		0.055	0.011	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
1,3-Dichloropropene, Total	<0.055		0.055	0.0099	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Ethylbenzene	<0.014		0.014	0.0070	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
2-Hexanone	<0.28		0.28	0.031	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Methylene Chloride	<0.28		0.28	0.038	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
4-Methyl-2-pentanone (MIBK)	<0.28		0.28	0.018	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Methyl tert-butyl ether	<0.11		0.11	0.024	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Styrene	<0.055		0.055	0.0055	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
1,1,2,2-Tetrachloroethane	<0.055		0.055	0.013	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Tetrachloroethene	<0.055		0.055	0.0092	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Toluene	<0.014		0.014	0.0064	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
trans-1,2-Dichloroethene	<0.055		0.055	0.014	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
trans-1,3-Dichloropropene	<0.055		0.055	0.012	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
1,1,1-Trichloroethane	<0.055		0.055	0.011	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
1,1,2-Trichloroethane	<0.055		0.055	0.015	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Trichloroethene	<0.028		0.028	0.010	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Vinyl acetate	<0.11		0.11	0.018	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Vinyl chloride	<0.014		0.014	0.0058	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50
Xylenes, Total	<0.028		0.028	0.0038	mg/Kg	☼	05/15/13 10:00	05/22/13 17:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*	*05/15/13 10:00*	*05/22/13 17:11*	*50*
Dibromofluoromethane	*100*		*75 - 120*	*05/15/13 10:00*	*05/22/13 17:11*	*50*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*	*05/15/13 10:00*	*05/22/13 17:11*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*05/15/13 10:00*	*05/22/13 17:11*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1

Client Sample ID: 2181-16-B04-2
Date Collected: 05/15/13 10:00
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-17
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
2-Methylnaphthalene	**0.10**	**J**	0.19	0.048	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
2,4-Dinitrophenol	<0.75	*	0.75	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
4-Nitroaniline	<0.37	*	0.37	0.076	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Phenanthrene	**0.10**		0.037	0.016	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Pyrene	**0.013**	**J**	0.037	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1

Client Sample ID: 2181-16-B04-2
Date Collected: 05/15/13 10:00
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-17
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.025	J	0.037	0.0084	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
Benzo[g,h,i]perylene	0.032	J	0.037	0.013	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	05/16/13 17:06	05/23/13 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*43*		*30 - 110*	*05/16/13 17:06*	*05/23/13 04:33*	*1*
Phenol-d5	*45*		*31 - 110*	*05/16/13 17:06*	*05/23/13 04:33*	*1*
Nitrobenzene-d5	*43*		*30 - 115*	*05/16/13 17:06*	*05/23/13 04:33*	*1*
2-Fluorobiphenyl	*47*		*30 - 119*	*05/16/13 17:06*	*05/23/13 04:33*	*1*
2,4,6-Tribromophenol	*42*		*35 - 137*	*05/16/13 17:06*	*05/23/13 04:33*	*1*
Terphenyl-d14	*50*		*36 - 134*	*05/16/13 17:06*	*05/23/13 04:33*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Arsenic	13		0.58	0.12	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Barium	21	B	0.58	0.062	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Beryllium	0.56		0.23	0.021	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Boron	13		2.9	0.12	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Cadmium	0.18		0.12	0.015	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Calcium	35000	B	11	3.1	mg/Kg	☼	05/24/13 15:00	05/25/13 18:49	1
Chromium	14		0.58	0.068	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Cobalt	13		0.29	0.021	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Copper	39		0.58	0.052	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Iron	22000		12	4.8	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Lead	19		0.29	0.087	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Magnesium	21000	B	5.6	1.2	mg/Kg	☼	05/24/13 15:00	05/25/13 18:49	1
Manganese	380		0.58	0.032	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Nickel	32		0.58	0.057	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Potassium	2400		29	1.8	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Silver	0.037	J	0.29	0.021	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Sodium	190		58	7.8	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Thallium	1.1		0.58	0.25	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Vanadium	16		0.29	0.043	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1
Zinc	51	B	1.2	0.24	mg/Kg	☼	05/16/13 09:12	05/24/13 07:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.033	J	0.50	0.010	mg/L		05/17/13 08:45	05/24/13 03:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 08:45	05/24/13 03:43	1
Boron	0.56		0.10	0.050	mg/L		05/17/13 08:45	05/24/13 03:43	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-3

Client Sample ID: 2181-16-B04-2
Date Collected: 05/15/13 10:00
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-17
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/17/13 08:45	05/24/13 03:43	1
Chromium	<0.025		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:43	1
Cobalt	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:43	1
Iron	**0.38**		0.20	0.20	mg/L		05/17/13 08:45	05/24/13 03:43	1
Lead	<0.0075		0.0075	0.0050	mg/L		05/17/13 08:45	05/24/13 03:43	1
Manganese	**0.052**		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:43	1
Nickel	<0.025		0.025	0.010	mg/L		05/17/13 08:45	05/24/13 03:43	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 08:45	05/24/13 03:43	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 08:45	05/24/13 03:43	1
Zinc	<0.10		0.10	0.020	mg/L		05/17/13 08:45	05/24/13 03:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 08:45	05/28/13 16:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/17/13 08:45	05/28/13 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000022**	**J**	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 12:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**		0.019	0.0090	mg/Kg	☼	05/16/13 15:20	05/20/13 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.76**		0.200	0.200	SU			05/21/13 14:16	1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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)

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: I55 COOK CO Project No.: IDOT 2013-006 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:**

COC No.: 3 of 8

Lab Job No.: 500-57045-3

Sample Temp: 3.8, 3.5, 3.7

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If ~~Total metal result exceeds MAC AND~~ SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
9	2181-16-B01-1	5/15	1:20	S	✓	✓					✓	✓	✓	✓						0-6'
10	2181-16-B01-2	5/15	1:30	S	✓	✓					✓	✓	✓	✓						6-12'
11	2181-16-B02-1	5/15	10:10	S	✓	✓					✓	✓	✓	✓						0-6'
12	2181-16-B02-2	5/15	10:15	S	✓	✓					✓	✓	✓	✓						6-12'
13	2181-16-B03-1	5/15	11:15	S	✓	✓					✓	✓	✓	✓						0-6'
14	2181-16-B03-2	5/15	11:30	S	✓	✓					✓	✓	✓	✓						6-12'
15	2181-16-B04-1	5/15	9:45	S	✓	✓					✓	✓	✓	✓						0-6'
16	2181-16-B04-1 DUP	5/15	9:50	S	✓	✓					✓	✓	✓	✓						0-6'
17	2181-16-B04-2	5/15	10:00	S	✓	✓					✓	✓	✓	✓						6-12'

Relinquished by:	Date/Time 5/15/13 16:10	Received by:	Date/Time 5-15-13/1610
Relinquished by: 5-15-13	Date/Time 1714	Received by:	Date/Time 5/16/13 0700
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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 348 (IL 43) Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
4811 South Harlem Avenue

City: Forest View State: IL Zip Code: 60402

County: Cook Township: Stickney

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

Latitude: 41.80662 (Decimal Degrees) Longitude: -87.80187 (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☒ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: 0310935006 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: Il	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847.705.4101	Zip Code:	60196-1096 Phone: 847.705.4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 348 (IL 43)

Latitude: 41.80662 Longitude: -87.80187

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 2181-17-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 2181-17. SEE FIGURE 2 AND TABLE 3k OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TEST AMERICA ANLAYTICAL REPORT - TEST AMERICA JOB ID: 500-57045-5

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:

12/24/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED PROFESSIONAL GEOLOGIST
STATE OF ILLINOIS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
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 2181-17
BP

Sample ID	2181-17-B01		[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)	0-2							
Sample Date	5/15/2013							
PID	0							
Sample pH	8.36							
Matrix	Soil							
Semivolatile Organic Compounds (mg/kg)								
Benzo(a)pyrene	**0.1**	**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: 500-57045-5
Client Project/Site: IDOT - IL 43 - WO 006

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

Attn: Mike Nelson

Authorized for release by:
5/31/2013 2:16:00 PM

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

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-5

Client Sample ID: 2181-17-B01
Date Collected: 05/15/13 11:40
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-30
Matrix: Solid
Percent Solids: 83.9

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	☼	05/15/13 11:40	05/20/13 16:52	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Carbon tetrachloride	<0.0049		0.0049	0.00088	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Vinyl acetate	<0.0049		0.0049	0.00076	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	05/15/13 11:40	05/20/13 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 122*	*05/15/13 11:40*	*05/20/13 16:52*	*1*
Dibromofluoromethane	*101*		*75 - 120*	*05/15/13 11:40*	*05/20/13 16:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*05/15/13 11:40*	*05/20/13 16:52*	*1*
Toluene-d8 (Surr)	*109*		*75 - 122*	*05/15/13 11:40*	*05/20/13 16:52*	*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	☼	05/20/13 07:24	05/30/13 12:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-5

Client Sample ID: 2181-17-B01
Date Collected: 05/15/13 11:40
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-30
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Phenanthrene	**0.12**		0.038	0.016	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Anthracene	**0.026**	**J**	0.038	0.0089	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Fluoranthene	**0.19**		0.038	0.016	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Pyrene	**0.16**		0.038	0.014	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Benzo[a]anthracene	**0.11**		0.038	0.0079	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1

Client Sample ID: 2181-17-B01
Date Collected: 05/15/13 11:40
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-30
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.13**		0.038	0.0086	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Benzo[b]fluoranthene	**0.12**		0.038	0.0074	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Benzo[k]fluoranthene	**0.12**		0.038	0.0090	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Benzo[a]pyrene	**0.10**		0.038	0.0069	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Indeno[1,2,3-cd]pyrene	**0.086**		0.038	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Dibenz(a,h)anthracene	**0.018**	**J**	0.038	0.011	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
Benzo[g,h,i]perylene	**0.11**		0.038	0.013	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	05/20/13 07:24	05/30/13 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*62*		*30 - 110*	*05/20/13 07:24*	*05/30/13 12:59*	*1*
Phenol-d5	*66*		*31 - 110*	*05/20/13 07:24*	*05/30/13 12:59*	*1*
Nitrobenzene-d5	*65*		*30 - 115*	*05/20/13 07:24*	*05/30/13 12:59*	*1*
2-Fluorobiphenyl	*69*		*30 - 119*	*05/20/13 07:24*	*05/30/13 12:59*	*1*
2,4,6-Tribromophenol	*69*		*35 - 137*	*05/20/13 07:24*	*05/30/13 12:59*	*1*
Terphenyl-d14	*62*		*36 - 134*	*05/20/13 07:24*	*05/30/13 12:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Arsenic	**8.6**		0.58	0.12	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Barium	**71**	**B**	0.58	0.062	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Beryllium	**1.3**		0.23	0.020	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Boron	**34**		2.9	0.12	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Cadmium	**3.4**		0.12	0.015	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Calcium	**98000**	**B**	120	31	mg/Kg	☼	05/16/13 09:40	05/29/13 11:58	10
Chromium	**38**		0.58	0.067	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Cobalt	**9.2**		0.29	0.021	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Copper	**54**		0.58	0.051	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Iron	**19000**		12	4.8	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Lead	**81**		0.29	0.086	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Magnesium	**29000**	**B**	5.8	1.2	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Manganese	**350**	**B**	0.58	0.031	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Nickel	**29**		0.58	0.057	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Potassium	**1900**		29	1.7	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Silver	**0.78**		0.29	0.021	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Sodium	**370**		58	7.8	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Thallium	**0.56**	**J**	0.58	0.24	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Vanadium	**21**		0.29	0.043	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1
Zinc	**130**		1.2	0.23	mg/Kg	☼	05/16/13 09:40	05/24/13 02:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		05/30/13 09:30	05/30/13 23:55	1
Lead	**0.013**		0.0075	0.0050	mg/L		05/30/13 09:30	05/30/13 23:55	1
Manganese	**1.1**		0.025	0.010	mg/L		05/30/13 09:30	05/30/13 23:55	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 43 - WO 006

TestAmerica Job ID: 500-57045-5

Client Sample ID: 2181-17-B01
Date Collected: 05/15/13 11:40
Date Received: 05/16/13 07:00

Lab Sample ID: 500-57045-30
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.24	J	0.50	0.010	mg/L		05/17/13 13:00	05/22/13 06:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/17/13 13:00	05/22/13 06:26	1
Boron	1.6		0.10	0.050	mg/L		05/17/13 13:00	05/22/13 06:26	1
Cadmium	0.0038	J	0.0050	0.0020	mg/L		05/17/13 13:00	05/22/13 06:26	1
Chromium	0.075		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:26	1
Cobalt	0.031		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 06:26	1
Iron	89		0.20	0.20	mg/L		05/17/13 13:00	05/22/13 06:26	1
Lead	0.16		0.0075	0.0050	mg/L		05/17/13 13:00	05/22/13 06:26	1
Manganese	0.41		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:26	1
Nickel	0.099		0.025	0.010	mg/L		05/17/13 13:00	05/22/13 06:26	1
Selenium	<0.050		0.050	0.010	mg/L		05/17/13 13:00	05/22/13 06:26	1
Silver	<0.025		0.025	0.0050	mg/L		05/17/13 13:00	05/22/13 06:26	1
Zinc	0.45	B	0.10	0.020	mg/L		05/17/13 13:00	05/22/13 06:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/30/13 09:30	05/31/13 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		05/17/13 13:00	05/28/13 16:35	1
Thallium	0.0025		0.0020	0.0020	mg/L		05/17/13 13:00	05/28/13 16:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000020	mg/L		05/20/13 15:00	05/21/13 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0086	mg/Kg	☼	05/16/13 15:20	05/20/13 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU			05/21/13 14:43	1

Qualifiers

GC/MS Semi VOA

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

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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)

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: I 55 - COOK CO Project No.: IDOT 2013-006 TAT: [X] 15 BD [ ] 10 BD [ ] 5 BD [ ] 2 BD ____ Other **Sampler:**

COC No.: 5 of 8

Lab Job No.: 500-57045-5

Sample Temp: 3.8, 3.5, 3.7

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If ~~Total metal result exceeds MAC AND~~ SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Matrix Key:

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
30	2181-17-B01	11:40	5/15	S	✓	✓					✓	✓	✓	✓						0-2'

Relinquished by:	Date/Time 5/15/13 16:10	Received by:	Date/Time 5-15-13 1616
Relinquished by:	Date/Time 1714 5-15	Received by:	Date/Time 5/16/13 0700
Relinquished by:	Date/Time	Received by:	Date/Time