



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 3512 (US 14) Office Phone Number, if available: _____

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

900-1000 blocks of E. Northwest Highway (south side of Northwest Hwy from S. Edward St. to west of Cambridge Ave.)

City: Mount Prospect/Des Plaines State: IL Zip Code: 60056 & 60016

County: Cook Township: Elk Grove & Maine

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

Latitude: 42.05606 Longitude: - 87.92031

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

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

IEPA Site Number(s), if assigned: BOL: 0310635639 BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): N/A Approximate End Date (mm/dd/yyyy): N/A

Estimated Volume of debris (cu. Yd.): 912

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma Romiti-Johnson@illinois.gov

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

Uncontaminated Soil 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 3043V-10-B01, 3043V-10-B04, 3043V-10-B05, 3043V-10-B06, 3043V-10-B07, 3043V-10-B08 AND 3043V-10-B09 WERE SAMPLED ADJACENT TO SITE 3043V-10. SEE TABLE 3a AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBERS: 500-190547-1 AND 500-190192-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Dec 14, 2020

Date:



The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 3043V-10

Railroad Tracks

Sample ID	3043V-10-B01-1	3043V-10-B01-2	3043V-10-B04	3043V-10-B05	3043V-10-B06	Maximum Allowable Concentration									
Sample Depth (ft)	0-6.5	6.5-13	0-7	0-6	0-5	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area					
Sample Date	11/3/2020	11/3/2020	11/3/2020	11/3/2020	11/3/2020										
PID	0	0	0	0	0										
Sample pH	8.4	7.7	8.3	7.4	7.5										
Matrix	Soil	Soil	Soil	Soil	Soil										
Semivolatile Organic Compounds (mg/kg)															
Benzo(a)pyrene	J 0.034		ND		0.21	1,2	ND		ND		0.09	0.09	0.98	1.3	2.1

Sample ID	3043V-10-B07	3043V-10-B08	3043V-10-B09-1	3043V-10-B09-2	Maximum Allowable Concentration					
Sample Depth (ft)	0-2	0-2	0-6.5	6.5-13	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area	
Sample Date	11/3/2020	10/27/2020	10/27/2020	10/27/2020						
PID	0	0	0	0						
Sample pH	7.8	8.5	8.1	8.2						
Matrix	Soil	Soil	Soil	Soil						
Semivolatile Organic Compounds (mg/kg)										
Benzo(a)pyrene	ND	J 0.021	0.095	1,2	ND	0.09	0.09	0.98	1.3	2.1

ANALYTICAL REPORT

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

Laboratory Job ID: 500-190547-1
Client Project/Site: IDOT - AE7-039

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
11/18/2020 4:37:52 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B01-1

Lab Sample ID: 500-190547-1

Date Collected: 11/03/20 09:50

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00066	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
2-Butanone (MEK)	0.0049		0.0047	0.0021	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Acetone	0.10		0.019	0.0082	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
cis-1,3-Dichloropropane	<0.0019		0.0019	0.00057	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
trans-1,3-Dichloropropane	<0.0019		0.0019	0.00066	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☆	11/04/20 17:49	11/08/20 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	11/04/20 17:49	11/08/20 16:24	1
4-Bromofluorobenzene (Surr)	101		75 - 131	11/04/20 17:49	11/08/20 16:24	1
Dibromofluoromethane	97		75 - 126	11/04/20 17:49	11/08/20 16:24	1
Toluene-d8 (Surr)	92		75 - 124	11/04/20 17:49	11/08/20 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B01-1

Lab Sample ID: 500-190547-1

Date Collected: 11/03/20 09:50

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
2-Methylnaphthalene	<0.083		0.083	0.0075	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Acenaphthene	0.011	J	0.041	0.0074	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Anthracene	0.036	J	0.041	0.0069	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Benzo[a]anthracene	0.040	J	0.041	0.0055	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Benzo[a]pyrene	0.034	J	0.041	0.0079	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Benzo[b]fluoranthene	0.054		0.041	0.0089	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Benzo[g,h,i]perylene	0.025	J	0.041	0.013	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Benzo[k]fluoranthene	0.019	J	0.041	0.012	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Chrysene	0.046		0.041	0.011	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Fluoranthene	0.099		0.041	0.0076	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Fluorene	0.0096	J	0.041	0.0058	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B01-1

Lab Sample ID: 500-190547-1

Date Collected: 11/03/20 09:50

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.021	J	0.041	0.011	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Phenanthrene	0.10		0.041	0.0057	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Phenol	<0.21		0.21	0.091	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1
Pyrene	0.095		0.041	0.0081	mg/Kg	☆	11/13/20 22:23	11/14/20 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	45		31 - 143	11/13/20 22:23	11/14/20 18:10	1
2-Fluorobiphenyl	66		43 - 145	11/13/20 22:23	11/14/20 18:10	1
2-Fluorophenol	87		31 - 166	11/13/20 22:23	11/14/20 18:10	1
Nitrobenzene-d5	71		37 - 147	11/13/20 22:23	11/14/20 18:10	1
Phenol-d5	91		30 - 153	11/13/20 22:23	11/14/20 18:10	1
Terphenyl-d14	72		42 - 157	11/13/20 22:23	11/14/20 18:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.85	J	1.2	0.22	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Arsenic	8.4		0.58	0.20	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Barium	50		0.58	0.066	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Beryllium	0.82		0.23	0.054	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Boron	14	B	2.9	0.27	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Calcium	61000		120	20	mg/Kg	☆	11/12/20 18:28	11/13/20 12:35	10
Chromium	16		0.58	0.28	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Cobalt	11		0.29	0.075	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Copper	32		0.58	0.16	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Iron	19000		12	6.0	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Lead	19		0.29	0.13	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Magnesium	26000		5.8	2.9	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Manganese	350		0.58	0.083	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Nickel	27		0.58	0.17	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Potassium	2600		29	10	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Selenium	<0.58		0.58	0.34	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Silver	<0.29		0.29	0.074	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Sodium	150		58	8.5	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Thallium	0.40	J	0.58	0.29	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Vanadium	22		0.29	0.068	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1
Zinc	81		1.2	0.51	mg/Kg	☆	11/12/20 18:28	11/13/20 11:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		11/12/20 17:06	11/13/20 14:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/12/20 17:06	11/13/20 14:51	1
Manganese	0.018	J	0.025	0.010	mg/L		11/12/20 17:06	11/13/20 14:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B01-1

Lab Sample ID: 500-190547-1

Date Collected: 11/03/20 09:50

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.020	J	0.050	0.010	mg/L		11/12/20 17:09	11/13/20 10:58	1
Barium	0.16	J	0.50	0.050	mg/L		11/12/20 17:09	11/13/20 10:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/12/20 17:09	11/13/20 10:58	1
Boron	0.13		0.10	0.050	mg/L		11/12/20 17:09	11/13/20 10:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/20 17:09	11/13/20 10:58	1
Calcium	21		2.5	0.50	mg/L		11/12/20 17:09	11/13/20 10:58	1
Chromium	0.056		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 10:58	1
Cobalt	0.014	J	0.025	0.010	mg/L		11/12/20 17:09	11/13/20 10:58	1
Iron	53		0.40	0.20	mg/L		11/12/20 17:09	11/13/20 10:58	1
Lead	0.025		0.0075	0.0075	mg/L		11/12/20 17:09	11/13/20 10:58	1
Manganese	0.20		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 10:58	1
Nickel	0.058		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 10:58	1
Potassium	15		2.5	0.50	mg/L		11/12/20 17:09	11/13/20 10:58	1
Selenium	<0.050		0.050	0.020	mg/L		11/12/20 17:09	11/13/20 10:58	1
Silver	<0.025		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 10:58	1
Zinc	0.14	J	0.50	0.020	mg/L		11/12/20 17:09	11/13/20 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/12/20 17:09	11/13/20 14:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/12/20 17:09	11/13/20 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/13/20 09:15	11/16/20 08:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.020	0.0066	mg/Kg	✱	11/13/20 13:25	11/16/20 08:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.33		0.33	0.17	mg/Kg	✱	11/16/20 12:20	11/16/20 17:43	1
pH	8.4		0.2	0.2	SU			11/10/20 15:42	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B01-2

Lab Sample ID: 500-190547-2

Date Collected: 11/03/20 10:00

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Acetone	0.023		0.018	0.0076	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00051	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☆	11/04/20 17:49	11/08/20 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	11/04/20 17:49	11/08/20 16:49	1
4-Bromofluorobenzene (Surr)	102		75 - 131	11/04/20 17:49	11/08/20 16:49	1
Dibromofluoromethane	101		75 - 126	11/04/20 17:49	11/08/20 16:49	1
Toluene-d8 (Surr)	90		75 - 124	11/04/20 17:49	11/08/20 16:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21	F1	0.21	0.044	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
1,2-Dichlorobenzene	<0.21	F1 F2	0.21	0.049	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
1,3-Dichlorobenzene	<0.21	F1 F2	0.21	0.046	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
1,4-Dichlorobenzene	<0.21	F1	0.21	0.052	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
2,2'-oxybis[1-chloropropane]	<0.21	F2	0.21	0.047	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B01-2

Lab Sample ID: 500-190547-2

Date Collected: 11/03/20 10:00

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
2,4,6-Trichlorophenol	<0.41	F1	0.41	0.14	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
2,4-Dichlorophenol	<0.41	F1	0.41	0.097	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
2,4-Dimethylphenol	<0.41	F1	0.41	0.16	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
2,4-Dinitrophenol	<0.82	F1	0.82	0.72	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
2,4-Dinitrotoluene	<0.21	F1 F2	0.21	0.065	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
2,6-Dinitrotoluene	<0.21	F1 F2	0.21	0.080	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
2-Chloronaphthalene	<0.21	F1	0.21	0.045	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
2-Chlorophenol	<0.21	F1 F2	0.21	0.070	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
2-Methylnaphthalene	<0.082	F1	0.082	0.0075	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
2-Nitroaniline	<0.21	F2	0.21	0.055	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
2-Nitrophenol	<0.41	F1 F2	0.41	0.097	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
3,3'-Dichlorobenzidine	<0.21	F1 F2	0.21	0.057	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
3-Nitroaniline	<0.41	F1 F2	0.41	0.13	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
4-Bromophenyl phenyl ether	<0.21	F1	0.21	0.054	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
4-Chloro-3-methylphenol	<0.41	F1	0.41	0.14	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
4-Chloroaniline	<0.82	F2	0.82	0.19	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
4-Chlorophenyl phenyl ether	<0.21	F1	0.21	0.048	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
4-Nitroaniline	<0.41	F1 F2	0.41	0.17	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
4-Nitrophenol	<0.82	F2	0.82	0.39	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Acenaphthene	<0.041	F1	0.041	0.0074	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Acenaphthylene	<0.041	F1	0.041	0.0054	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Anthracene	<0.041	F1	0.041	0.0068	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Benzo[a]anthracene	<0.041	F1	0.041	0.0055	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Benzo[a]pyrene	<0.041	F1	0.041	0.0079	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Benzo[b]fluoranthene	0.010	J F1 F2	0.041	0.0088	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Benzo[g,h,i]perylene	<0.041	F1 F2	0.041	0.013	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Benzo[k]fluoranthene	<0.041	F1	0.041	0.012	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Bis(2-chloroethoxy)methane	<0.21	F2	0.21	0.042	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Bis(2-chloroethyl)ether	<0.21	F2	0.21	0.061	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Bis(2-ethylhexyl) phthalate	<0.21	F1 F2	0.21	0.075	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Butyl benzyl phthalate	<0.21	F1 F2	0.21	0.078	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Carbazole	<0.21	F1	0.21	0.10	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Chrysene	<0.041	F1	0.041	0.011	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Dibenz(a,h)anthracene	<0.041	F1	0.041	0.0079	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Dibenzofuran	<0.21	F1	0.21	0.048	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Diethyl phthalate	<0.21	F1	0.21	0.069	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Dimethyl phthalate	<0.21	F1	0.21	0.053	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Di-n-butyl phthalate	<0.21	F1	0.21	0.062	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Di-n-octyl phthalate	<0.21	F1	0.21	0.067	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Fluoranthene	0.0091	J F1	0.041	0.0076	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Fluorene	<0.041	F1	0.041	0.0057	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Hexachlorobenzene	<0.082	F1	0.082	0.0095	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Hexachlorobutadiene	<0.21	F1	0.21	0.064	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Hexachlorocyclopentadiene	<0.82	F1	0.82	0.24	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Hexachloroethane	<0.21	F1 F2	0.21	0.062	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B01-2

Lab Sample ID: 500-190547-2

Date Collected: 11/03/20 10:00

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041	F1	0.041	0.011	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Isophorone	<0.21	F2	0.21	0.046	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Naphthalene	<0.041	F1 F2	0.041	0.0063	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Nitrobenzene	<0.041	F1 F2	0.041	0.010	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
N-Nitrosodi-n-propylamine	<0.082	F1 F2	0.082	0.050	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
N-Nitrosodiphenylamine	<0.21	F1	0.21	0.048	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Pentachlorophenol	<0.82		0.82	0.66	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Phenanthrene	0.0089	J F1	0.041	0.0057	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Phenol	<0.21	F2	0.21	0.091	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1
Pyrene	0.010	J	0.041	0.0081	mg/Kg	☆	11/13/20 22:23	11/14/20 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		31 - 143	11/13/20 22:23	11/14/20 18:36	1
2-Fluorobiphenyl	72		43 - 145	11/13/20 22:23	11/14/20 18:36	1
2-Fluorophenol	94		31 - 166	11/13/20 22:23	11/14/20 18:36	1
Nitrobenzene-d5	68		37 - 147	11/13/20 22:23	11/14/20 18:36	1
Phenol-d5	89		30 - 153	11/13/20 22:23	11/14/20 18:36	1
Terphenyl-d14	75		42 - 157	11/13/20 22:23	11/14/20 18:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.71	J	1.2	0.23	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Arsenic	8.9		0.59	0.20	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Barium	54		0.59	0.067	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Beryllium	0.82		0.24	0.055	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Boron	12	B	2.9	0.27	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Calcium	32000		12	2.0	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Chromium	17		0.59	0.29	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Cobalt	10		0.29	0.077	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Copper	22		0.59	0.16	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Iron	20000		12	6.1	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Lead	16		0.29	0.14	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Magnesium	20000		5.9	2.9	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Manganese	430		0.59	0.085	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Nickel	31		0.59	0.17	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Potassium	2500		29	10	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Selenium	<0.59		0.59	0.35	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Silver	<0.29		0.29	0.076	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Sodium	110		59	8.7	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Thallium	0.40	J	0.59	0.29	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Vanadium	25		0.29	0.069	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	1
Zinc	60		1.2	0.52	mg/Kg	☆	11/12/20 18:28	11/13/20 11:19	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		11/12/20 17:06	11/13/20 14:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B01-2

Lab Sample ID: 500-190547-2

Date Collected: 11/03/20 10:00

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/12/20 17:09	11/13/20 11:01	1
Barium	0.050	J	0.50	0.050	mg/L		11/12/20 17:09	11/13/20 11:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/12/20 17:09	11/13/20 11:01	1
Boron	<0.10		0.10	0.050	mg/L		11/12/20 17:09	11/13/20 11:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/20 17:09	11/13/20 11:01	1
Calcium	9.7		2.5	0.50	mg/L		11/12/20 17:09	11/13/20 11:01	1
Chromium	0.014	J	0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:01	1
Cobalt	<0.025		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:01	1
Iron	10		0.40	0.20	mg/L		11/12/20 17:09	11/13/20 11:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/12/20 17:09	11/13/20 11:01	1
Manganese	0.038		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:01	1
Nickel	<0.025		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:01	1
Potassium	4.6		2.5	0.50	mg/L		11/12/20 17:09	11/13/20 11:01	1
Selenium	<0.050		0.050	0.020	mg/L		11/12/20 17:09	11/13/20 11:01	1
Silver	<0.025		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:01	1
Zinc	0.023	J	0.50	0.020	mg/L		11/12/20 17:09	11/13/20 11:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/12/20 17:09	11/13/20 14:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/12/20 17:09	11/13/20 14:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/13/20 09:15	11/16/20 08:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0061	mg/Kg	✱	11/13/20 13:25	11/16/20 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.12	mg/Kg	✱	11/16/20 12:20	11/16/20 17:44	1
pH	7.7		0.2	0.2	SU			11/10/20 15:44	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B04

Lab Sample ID: 500-190547-6

Date Collected: 11/03/20 10:30

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
2-Butanone (MEK)	0.0046	J	0.0050	0.0022	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Acetone	0.021		0.020	0.0087	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Tetrachloroethene	0.00088	J	0.0020	0.00068	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☆	11/04/20 17:49	11/10/20 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	11/04/20 17:49	11/10/20 14:21	1
4-Bromofluorobenzene (Surr)	104		75 - 131	11/04/20 17:49	11/10/20 14:21	1
Dibromofluoromethane	97		75 - 126	11/04/20 17:49	11/10/20 14:21	1
Toluene-d8 (Surr)	94		75 - 124	11/04/20 17:49	11/10/20 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.22		0.22	0.047	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
1,2-Dichlorobenzene	<0.22		0.22	0.052	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
1,3-Dichlorobenzene	<0.22		0.22	0.049	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B04

Lab Sample ID: 500-190547-6

Date Collected: 11/03/20 10:30

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.43		0.43	0.099	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
2,4-Dinitrophenol	<0.87		0.87	0.76	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
2,4-Dinitrotoluene	<0.22		0.22	0.069	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
2,6-Dinitrotoluene	<0.22		0.22	0.085	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
2-Chlorophenol	<0.22		0.22	0.074	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
2-Methylnaphthalene	<0.087		0.087	0.0079	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
3 & 4 Methylphenol	<0.22		0.22	0.072	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.060	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
4,6-Dinitro-2-methylphenol	<0.87		0.87	0.35	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
4-Chloroaniline	<0.87		0.87	0.20	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
4-Nitrophenol	<0.87		0.87	0.41	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Acenaphthene	0.034	J	0.043	0.0078	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Acenaphthylene	<0.043		0.043	0.0057	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Anthracene	0.095		0.043	0.0072	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Benzo[a]anthracene	0.19		0.043	0.0058	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Benzo[a]pyrene	0.21		0.043	0.0084	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Benzo[b]fluoranthene	0.25		0.043	0.0093	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Benzo[g,h,i]perylene	0.10		0.043	0.014	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Benzo[k]fluoranthene	0.082		0.043	0.013	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.065	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.079	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Chrysene	0.21		0.043	0.012	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Dibenz(a,h)anthracene	0.026	J	0.043	0.0084	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Dibenzofuran	<0.22		0.22	0.051	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Di-n-butyl phthalate	<0.22		0.22	0.066	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Fluoranthene	0.44		0.043	0.0080	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Fluorene	0.027	J	0.043	0.0061	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Hexachlorobenzene	<0.087		0.087	0.010	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Hexachlorobutadiene	<0.22		0.22	0.068	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Hexachlorocyclopentadiene	<0.87		0.87	0.25	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Hexachloroethane	<0.22		0.22	0.066	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B04

Lab Sample ID: 500-190547-6

Date Collected: 11/03/20 10:30

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.099		0.043	0.011	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Isophorone	<0.22		0.22	0.049	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
N-Nitrosodi-n-propylamine	<0.087		0.087	0.053	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Pentachlorophenol	<0.87		0.87	0.69	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Phenanthrene	0.22		0.043	0.0060	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Phenol	<0.22		0.22	0.096	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Pyrene	0.41		0.043	0.0086	mg/Kg	☆	11/13/20 22:23	11/14/20 19:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	48		31 - 143				11/13/20 22:23	11/14/20 19:28	1
2-Fluorobiphenyl	59		43 - 145				11/13/20 22:23	11/14/20 19:28	1
2-Fluorophenol	74		31 - 166				11/13/20 22:23	11/14/20 19:28	1
Nitrobenzene-d5	55		37 - 147				11/13/20 22:23	11/14/20 19:28	1
Phenol-d5	73		30 - 153				11/13/20 22:23	11/14/20 19:28	1
Terphenyl-d14	70		42 - 157				11/13/20 22:23	11/14/20 19:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.78	J	1.3	0.25	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Arsenic	7.4		0.64	0.22	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Barium	95		0.64	0.073	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Beryllium	1.1		0.26	0.060	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Boron	13	B	3.2	0.30	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Cadmium	0.046	J	0.13	0.023	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Calcium	27000		13	2.2	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Chromium	20		0.64	0.32	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Cobalt	12		0.32	0.084	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Copper	25		0.64	0.18	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Iron	22000		13	6.6	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Lead	17		0.32	0.15	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Magnesium	14000		6.4	3.2	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Manganese	580		0.64	0.092	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Nickel	33		0.64	0.19	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Potassium	2400		32	11	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Selenium	0.41	J	0.64	0.37	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Silver	<0.32		0.32	0.082	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Sodium	2500		64	9.4	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Thallium	0.38	J	0.64	0.32	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Vanadium	29		0.32	0.075	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1
Zinc	71		1.3	0.56	mg/Kg	☆	11/12/20 18:28	11/13/20 11:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/12/20 17:06	11/13/20 15:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/12/20 17:06	11/13/20 15:08	1
Chromium	<0.025		0.025	0.010	mg/L		11/12/20 17:06	11/13/20 15:08	1
Iron	<0.40		0.40	0.20	mg/L		11/12/20 17:06	11/13/20 15:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B04

Lab Sample ID: 500-190547-6

Date Collected: 11/03/20 10:30

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		11/12/20 17:06	11/13/20 15:08	1
Manganese	8.0		0.025	0.010	mg/L		11/12/20 17:06	11/13/20 15:08	1
Nickel	<0.025		0.025	0.010	mg/L		11/12/20 17:06	11/13/20 15:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.058		0.050	0.010	mg/L		11/12/20 17:09	11/13/20 11:14	1
Barium	0.56		0.50	0.050	mg/L		11/12/20 17:09	11/13/20 11:14	1
Beryllium	0.0059		0.0040	0.0040	mg/L		11/12/20 17:09	11/13/20 11:14	1
Boron	0.17		0.10	0.050	mg/L		11/12/20 17:09	11/13/20 11:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/20 17:09	11/13/20 11:14	1
Calcium	27		2.5	0.50	mg/L		11/12/20 17:09	11/13/20 11:14	1
Chromium	0.14		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:14	1
Cobalt	0.056		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:14	1
Iron	150		0.40	0.20	mg/L		11/12/20 17:09	11/13/20 11:14	1
Lead	0.079		0.0075	0.0075	mg/L		11/12/20 17:09	11/13/20 11:14	1
Manganese	1.2		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:14	1
Nickel	0.16		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:14	1
Potassium	24		2.5	0.50	mg/L		11/12/20 17:09	11/13/20 11:14	1
Selenium	<0.050		0.050	0.020	mg/L		11/12/20 17:09	11/13/20 11:14	1
Silver	<0.025		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:14	1
Zinc	0.33 J		0.50	0.020	mg/L		11/12/20 17:09	11/13/20 11:14	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		11/12/20 17:06	11/16/20 14:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/12/20 17:09	11/13/20 14:46	1
Thallium	0.0026		0.0020	0.0020	mg/L		11/12/20 17:09	11/13/20 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/13/20 09:15	11/16/20 08:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.020	0.0068	mg/Kg	✱	11/13/20 13:25	11/16/20 08:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.33		0.32	0.16	mg/Kg	✱	11/16/20 12:20	11/16/20 17:54	1
pH	8.3		0.2	0.2	SU			11/10/20 15:58	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B05

Lab Sample ID: 500-190547-7

Date Collected: 11/03/20 10:40

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 72.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00070	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00090	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00073	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Acetone	0.12		0.021	0.0091	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Carbon tetrachloride	<0.0021		0.0021	0.00061	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Chlorobenzene	<0.0021		0.0021	0.00077	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Dibromochloromethane	<0.0021		0.0021	0.00068	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Methylene Chloride	<0.0052		0.0052	0.0021	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00092	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00073	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Trichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Vinyl chloride	<0.0021		0.0021	0.00092	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	☆	11/04/20 17:49	11/08/20 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	11/04/20 17:49	11/08/20 19:23	1
4-Bromofluorobenzene (Surr)	98		75 - 131	11/04/20 17:49	11/08/20 19:23	1
Dibromofluoromethane	104		75 - 126	11/04/20 17:49	11/08/20 19:23	1
Toluene-d8 (Surr)	88		75 - 124	11/04/20 17:49	11/08/20 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.23		0.23	0.049	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
1,2-Dichlorobenzene	<0.23		0.23	0.054	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
1,3-Dichlorobenzene	<0.23		0.23	0.051	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
1,4-Dichlorobenzene	<0.23		0.23	0.058	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
2,2'-oxybis[1-chloropropane]	<0.23		0.23	0.053	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B05

Lab Sample ID: 500-190547-7

Date Collected: 11/03/20 10:40

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 72.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.45		0.45	0.10	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
2,4,6-Trichlorophenol	<0.45		0.45	0.16	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
2,4-Dichlorophenol	<0.45		0.45	0.11	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
2,4-Dimethylphenol	<0.45		0.45	0.17	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
2,4-Dinitrophenol	<0.92		0.92	0.80	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
2,4-Dinitrotoluene	<0.23		0.23	0.072	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
2,6-Dinitrotoluene	<0.23		0.23	0.089	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
2-Chloronaphthalene	<0.23		0.23	0.050	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
2-Chlorophenol	<0.23		0.23	0.078	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
2-Methylnaphthalene	0.020	J	0.092	0.0084	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
2-Methylphenol	<0.23		0.23	0.073	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
2-Nitroaniline	<0.23		0.23	0.061	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
2-Nitrophenol	<0.45		0.45	0.11	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
3 & 4 Methylphenol	<0.23		0.23	0.076	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
3,3'-Dichlorobenzidine	<0.23		0.23	0.064	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
3-Nitroaniline	<0.45		0.45	0.14	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
4,6-Dinitro-2-methylphenol	<0.92		0.92	0.37	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
4-Bromophenyl phenyl ether	<0.23		0.23	0.060	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
4-Chloro-3-methylphenol	<0.45		0.45	0.15	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
4-Chloroaniline	<0.92		0.92	0.21	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
4-Chlorophenyl phenyl ether	<0.23		0.23	0.053	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
4-Nitroaniline	<0.45		0.45	0.19	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
4-Nitrophenol	<0.92		0.92	0.43	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Acenaphthene	<0.045		0.045	0.0082	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Acenaphthylene	<0.045		0.045	0.0060	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Anthracene	<0.045		0.045	0.0076	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Benzo[a]anthracene	<0.045		0.045	0.0061	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Benzo[a]pyrene	<0.045		0.045	0.0088	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Benzo[b]fluoranthene	<0.045		0.045	0.0098	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Benzo[g,h,i]perylene	<0.045		0.045	0.015	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Benzo[k]fluoranthene	<0.045		0.045	0.013	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Bis(2-chloroethoxy)methane	<0.23		0.23	0.046	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Bis(2-chloroethyl)ether	<0.23		0.23	0.068	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Bis(2-ethylhexyl) phthalate	<0.23		0.23	0.083	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Butyl benzyl phthalate	<0.23		0.23	0.087	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Carbazole	<0.23		0.23	0.11	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Chrysene	<0.045		0.045	0.012	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Dibenz(a,h)anthracene	<0.045		0.045	0.0088	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Dibenzofuran	<0.23		0.23	0.053	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Diethyl phthalate	<0.23		0.23	0.077	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Dimethyl phthalate	<0.23		0.23	0.059	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Di-n-butyl phthalate	<0.23		0.23	0.069	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Di-n-octyl phthalate	<0.23		0.23	0.074	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Fluoranthene	<0.045		0.045	0.0084	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Fluorene	<0.045		0.045	0.0064	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Hexachlorobenzene	<0.092		0.092	0.011	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Hexachlorobutadiene	<0.23		0.23	0.071	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Hexachlorocyclopentadiene	<0.92		0.92	0.26	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1
Hexachloroethane	<0.23		0.23	0.069	mg/Kg	☆	11/13/20 22:23	11/14/20 19:54	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B05

Lab Sample ID: 500-190547-7

Date Collected: 11/03/20 10:40

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 72.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.045		0.045	0.012	mg/Kg	✱	11/13/20 22:23	11/14/20 19:54	1
Isophorone	<0.23		0.23	0.051	mg/Kg	✱	11/13/20 22:23	11/14/20 19:54	1
Naphthalene	0.016	J	0.045	0.0070	mg/Kg	✱	11/13/20 22:23	11/14/20 19:54	1
Nitrobenzene	<0.045		0.045	0.011	mg/Kg	✱	11/13/20 22:23	11/14/20 19:54	1
N-Nitrosodi-n-propylamine	<0.092		0.092	0.056	mg/Kg	✱	11/13/20 22:23	11/14/20 19:54	1
N-Nitrosodiphenylamine	<0.23		0.23	0.054	mg/Kg	✱	11/13/20 22:23	11/14/20 19:54	1
Pentachlorophenol	<0.92		0.92	0.73	mg/Kg	✱	11/13/20 22:23	11/14/20 19:54	1
Phenanthrene	0.014	J	0.045	0.0063	mg/Kg	✱	11/13/20 22:23	11/14/20 19:54	1
Phenol	<0.23		0.23	0.10	mg/Kg	✱	11/13/20 22:23	11/14/20 19:54	1
Pyrene	<0.045		0.045	0.0090	mg/Kg	✱	11/13/20 22:23	11/14/20 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	45		31 - 143	11/13/20 22:23	11/14/20 19:54	1
2-Fluorobiphenyl	51		43 - 145	11/13/20 22:23	11/14/20 19:54	1
2-Fluorophenol	69		31 - 166	11/13/20 22:23	11/14/20 19:54	1
Nitrobenzene-d5	49		37 - 147	11/13/20 22:23	11/14/20 19:54	1
Phenol-d5	66		30 - 153	11/13/20 22:23	11/14/20 19:54	1
Terphenyl-d14	64		42 - 157	11/13/20 22:23	11/14/20 19:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.3	0.26	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Arsenic	5.0		0.66	0.22	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Barium	97		0.66	0.075	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Beryllium	0.98		0.26	0.061	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Boron	10	B	3.3	0.31	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Cadmium	0.14		0.13	0.024	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Calcium	6100		13	2.2	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Chromium	20		0.66	0.32	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Cobalt	8.6		0.33	0.086	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Copper	33		0.66	0.18	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Iron	19000		13	6.8	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Lead	17		0.33	0.15	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Magnesium	4500		6.6	3.3	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Manganese	140		0.66	0.095	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Nickel	27		0.66	0.19	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Potassium	1600		33	12	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Selenium	<0.66		0.66	0.39	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Silver	<0.33		0.33	0.085	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Sodium	2300		66	9.7	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Thallium	0.39	J	0.66	0.33	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Vanadium	30		0.33	0.077	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1
Zinc	72		1.3	0.58	mg/Kg	✱	11/12/20 18:28	11/13/20 11:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.30	J	0.40	0.20	mg/L		11/12/20 17:06	11/13/20 15:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/12/20 17:06	11/13/20 15:11	1
Manganese	1.4		0.025	0.010	mg/L		11/12/20 17:06	11/13/20 15:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B05

Lab Sample ID: 500-190547-7

Date Collected: 11/03/20 10:40

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 72.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.013	J	0.050	0.010	mg/L		11/12/20 17:09	11/13/20 11:17	1
Barium	0.30	J	0.50	0.050	mg/L		11/12/20 17:09	11/13/20 11:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/12/20 17:09	11/13/20 11:17	1
Boron	0.18		0.10	0.050	mg/L		11/12/20 17:09	11/13/20 11:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/20 17:09	11/13/20 11:17	1
Calcium	12		2.5	0.50	mg/L		11/12/20 17:09	11/13/20 11:17	1
Chromium	0.068		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:17	1
Cobalt	0.016	J	0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:17	1
Iron	51		0.40	0.20	mg/L		11/12/20 17:09	11/13/20 11:17	1
Lead	0.031		0.0075	0.0075	mg/L		11/12/20 17:09	11/13/20 11:17	1
Manganese	0.28		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:17	1
Nickel	0.053		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:17	1
Potassium	7.6		2.5	0.50	mg/L		11/12/20 17:09	11/13/20 11:17	1
Selenium	<0.050		0.050	0.020	mg/L		11/12/20 17:09	11/13/20 11:17	1
Silver	<0.025		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:17	1
Zinc	0.16	J	0.50	0.020	mg/L		11/12/20 17:09	11/13/20 11:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/12/20 17:09	11/13/20 14:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/12/20 17:09	11/13/20 14:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/13/20 09:15	11/16/20 08:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.021	0.0071	mg/Kg	⚠	11/13/20 13:25	11/16/20 08:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.33	J	0.34	0.17	mg/Kg	⚠	11/16/20 12:20	11/16/20 17:56	1
pH	7.4		0.2	0.2	SU			11/10/20 16:01	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B06

Lab Sample ID: 500-190547-8

Date Collected: 11/03/20 10:50

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00068	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00092	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
1,1-Dichloroethene	<0.0021		0.0021	0.00074	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
1,2-Dichloroethane	<0.0053		0.0053	0.0017	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
1,3-Dichloropropane, Total	<0.0021		0.0021	0.00075	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
2-Butanone (MEK)	0.024		0.0053	0.0024	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Acetone	0.12		0.021	0.0093	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Benzene	<0.0021		0.0021	0.00055	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Bromodichloromethane	<0.0021		0.0021	0.00044	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Carbon tetrachloride	<0.0021		0.0021	0.00062	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Chlorobenzene	<0.0021		0.0021	0.00079	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Chloromethane	<0.0053		0.0053	0.0022	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00060	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
cis-1,3-Dichloropropane	<0.0021		0.0021	0.00065	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Dibromochloromethane	<0.0021		0.0021	0.00070	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00063	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Styrene	<0.0021		0.0021	0.00065	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Tetrachloroethene	<0.0021		0.0021	0.00073	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00095	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
trans-1,3-Dichloropropane	<0.0021		0.0021	0.00075	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Trichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Vinyl chloride	<0.0021		0.0021	0.00095	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1
Xylenes, Total	<0.0043		0.0043	0.00068	mg/Kg	☆	11/04/20 17:49	11/10/20 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	11/04/20 17:49	11/10/20 14:47	1
4-Bromofluorobenzene (Surr)	104		75 - 131	11/04/20 17:49	11/10/20 14:47	1
Dibromofluoromethane	101		75 - 126	11/04/20 17:49	11/10/20 14:47	1
Toluene-d8 (Surr)	91		75 - 124	11/04/20 17:49	11/10/20 14:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1

Eurolins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B06

Lab Sample ID: 500-190547-8

Date Collected: 11/03/20 10:50

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
2-Methylnaphthalene	<0.086		0.086	0.0078	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.050	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
4-Nitrophenol	<0.86		0.86	0.40	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Benzo[b]fluoranthene	<0.042		0.042	0.0092	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Benzo[k]fluoranthene	<0.042		0.042	0.013	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.064	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.078	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Chrysene	<0.042		0.042	0.012	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Fluoranthene	<0.042		0.042	0.0079	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Hexachlorobenzene	<0.086		0.086	0.0098	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Hexachlorocyclopentadiene	<0.86		0.86	0.24	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Hexachloroethane	<0.21		0.21	0.065	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B06

Lab Sample ID: 500-190547-8

Date Collected: 11/03/20 10:50

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Pentachlorophenol	<0.86		0.86	0.68	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Phenol	<0.21		0.21	0.094	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1
Pyrene	<0.042		0.042	0.0084	mg/Kg	☆	11/13/20 22:23	11/14/20 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	48		31 - 143	11/13/20 22:23	11/14/20 20:20	1
2-Fluorobiphenyl	52		43 - 145	11/13/20 22:23	11/14/20 20:20	1
2-Fluorophenol	68		31 - 166	11/13/20 22:23	11/14/20 20:20	1
Nitrobenzene-d5	49		37 - 147	11/13/20 22:23	11/14/20 20:20	1
Phenol-d5	66		30 - 153	11/13/20 22:23	11/14/20 20:20	1
Terphenyl-d14	64		42 - 157	11/13/20 22:23	11/14/20 20:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.94	J	1.2	0.24	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Arsenic	7.9		0.61	0.21	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Barium	65		0.61	0.070	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Beryllium	0.92		0.24	0.057	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Boron	14	B	3.1	0.29	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Calcium	9600		12	2.1	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Chromium	20		0.61	0.30	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Cobalt	12		0.31	0.080	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Copper	23		0.61	0.17	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Iron	23000		12	6.4	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Lead	15		0.31	0.14	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Magnesium	8000		6.1	3.0	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Manganese	380		0.61	0.089	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Nickel	32		0.61	0.18	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Potassium	3000		31	11	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Selenium	<0.61		0.61	0.36	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Silver	<0.31		0.31	0.079	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Sodium	3500		61	9.1	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Thallium	0.32	J	0.61	0.31	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Vanadium	28		0.31	0.072	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1
Zinc	61		1.2	0.54	mg/Kg	☆	11/12/20 18:28	11/13/20 11:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/12/20 17:06	11/13/20 15:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/12/20 17:06	11/13/20 15:15	1
Chromium	<0.025		0.025	0.010	mg/L		11/12/20 17:06	11/13/20 15:15	1
Iron	<0.40		0.40	0.20	mg/L		11/12/20 17:06	11/13/20 15:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B06

Lab Sample ID: 500-190547-8

Date Collected: 11/03/20 10:50

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		11/12/20 17:06	11/13/20 15:15	1
Manganese	6.1		0.025	0.010	mg/L		11/12/20 17:06	11/13/20 15:15	1
Nickel	0.014	J	0.025	0.010	mg/L		11/12/20 17:06	11/13/20 15:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.079		0.050	0.010	mg/L		11/12/20 17:09	11/13/20 11:20	1
Barium	0.62		0.50	0.050	mg/L		11/12/20 17:09	11/13/20 11:20	1
Beryllium	0.0082		0.0040	0.0040	mg/L		11/12/20 17:09	11/13/20 11:20	1
Boron	0.22		0.10	0.050	mg/L		11/12/20 17:09	11/13/20 11:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/20 17:09	11/13/20 11:20	1
Calcium	20		2.5	0.50	mg/L		11/12/20 17:09	11/13/20 11:20	1
Chromium	0.22		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:20	1
Cobalt	0.087		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:20	1
Iron	230		0.40	0.20	mg/L		11/12/20 17:09	11/13/20 11:20	1
Lead	0.11		0.0075	0.0075	mg/L		11/12/20 17:09	11/13/20 11:20	1
Manganese	2.1		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:20	1
Nickel	0.24		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:20	1
Potassium	40		2.5	0.50	mg/L		11/12/20 17:09	11/13/20 11:20	1
Selenium	<0.050		0.050	0.020	mg/L		11/12/20 17:09	11/13/20 11:20	1
Silver	<0.025		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:20	1
Zinc	0.49	J	0.50	0.020	mg/L		11/12/20 17:09	11/13/20 11:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		11/12/20 17:06	11/16/20 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/12/20 17:09	11/13/20 14:50	1
Thallium	0.0044		0.0020	0.0020	mg/L		11/12/20 17:09	11/13/20 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00033		0.00033	0.00033	mg/L		11/13/20 09:15	11/16/20 08:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.020	0.0066	mg/Kg	☆	11/13/20 13:25	11/16/20 08:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.15	J	0.28	0.14	mg/Kg	☆	11/16/20 12:20	11/16/20 17:58	1
pH	7.5		0.2	0.2	SU			11/10/20 16:03	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B07

Lab Sample ID: 500-190547-9

Date Collected: 11/03/20 11:00

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00068	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
2-Butanone (MEK)	0.011		0.0048	0.0021	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Acetone	0.11		0.019	0.0084	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
cis-1,3-Dichloropropane	<0.0019		0.0019	0.00058	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
trans-1,3-Dichloropropane	<0.0019		0.0019	0.00068	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☆	11/04/20 17:49	11/10/20 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	11/04/20 17:49	11/10/20 15:12	1
4-Bromofluorobenzene (Surr)	101		75 - 131	11/04/20 17:49	11/10/20 15:12	1
Dibromofluoromethane	101		75 - 126	11/04/20 17:49	11/10/20 15:12	1
Toluene-d8 (Surr)	89		75 - 124	11/04/20 17:49	11/10/20 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B07

Lab Sample ID: 500-190547-9

Date Collected: 11/03/20 11:00

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
2-Methylnaphthalene	<0.084		0.084	0.0076	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☆	11/13/20 22:23	11/14/20 20:46	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B07

Lab Sample ID: 500-190547-9

Date Collected: 11/03/20 11:00

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	✱	11/13/20 22:23	11/14/20 20:46	1
Isophorone	<0.21		0.21	0.047	mg/Kg	✱	11/13/20 22:23	11/14/20 20:46	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	✱	11/13/20 22:23	11/14/20 20:46	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	✱	11/13/20 22:23	11/14/20 20:46	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	✱	11/13/20 22:23	11/14/20 20:46	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	✱	11/13/20 22:23	11/14/20 20:46	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	✱	11/13/20 22:23	11/14/20 20:46	1
Phenanthrene	0.0076	J	0.041	0.0058	mg/Kg	✱	11/13/20 22:23	11/14/20 20:46	1
Phenol	<0.21		0.21	0.092	mg/Kg	✱	11/13/20 22:23	11/14/20 20:46	1
Pyrene	<0.041		0.041	0.0083	mg/Kg	✱	11/13/20 22:23	11/14/20 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	52		31 - 143	11/13/20 22:23	11/14/20 20:46	1
2-Fluorobiphenyl	58		43 - 145	11/13/20 22:23	11/14/20 20:46	1
2-Fluorophenol	79		31 - 166	11/13/20 22:23	11/14/20 20:46	1
Nitrobenzene-d5	57		37 - 147	11/13/20 22:23	11/14/20 20:46	1
Phenol-d5	75		30 - 153	11/13/20 22:23	11/14/20 20:46	1
Terphenyl-d14	66		42 - 157	11/13/20 22:23	11/14/20 20:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.86	J	1.2	0.23	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Arsenic	7.6		0.59	0.20	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Barium	99		0.59	0.067	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Beryllium	1.2		0.24	0.055	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Boron	12	B	2.9	0.27	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Cadmium	<0.12		0.12	0.021	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Calcium	5200		12	2.0	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Chromium	25		0.59	0.29	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Cobalt	15		0.29	0.077	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Copper	23		0.59	0.16	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Iron	26000		12	6.1	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Lead	16		0.29	0.14	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Magnesium	7000		5.9	2.9	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Manganese	320		0.59	0.085	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Nickel	39		0.59	0.17	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Potassium	3000		29	10	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Selenium	0.57	J	0.59	0.35	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Silver	<0.29		0.29	0.076	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Sodium	2900		59	8.7	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Thallium	0.60		0.59	0.29	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Vanadium	34		0.29	0.070	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1
Zinc	67		1.2	0.52	mg/Kg	✱	11/12/20 18:28	11/13/20 11:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/12/20 17:06	11/13/20 15:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/12/20 17:06	11/13/20 15:18	1
Chromium	<0.025		0.025	0.010	mg/L		11/12/20 17:06	11/13/20 15:18	1
Iron	<0.40		0.40	0.20	mg/L		11/12/20 17:06	11/13/20 15:18	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Client Sample ID: 3043V-10-B07

Lab Sample ID: 500-190547-9

Date Collected: 11/03/20 11:00

Matrix: Solid

Date Received: 11/04/20 11:45

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		11/12/20 17:06	11/13/20 15:18	1
Manganese	10		0.025	0.010	mg/L		11/12/20 17:06	11/13/20 15:18	1
Nickel	0.016	J	0.025	0.010	mg/L		11/12/20 17:06	11/13/20 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.075		0.050	0.010	mg/L		11/12/20 17:09	11/13/20 11:23	1
Barium	1.1		0.50	0.050	mg/L		11/12/20 17:09	11/13/20 11:23	1
Beryllium	0.011		0.0040	0.0040	mg/L		11/12/20 17:09	11/13/20 11:23	1
Boron	0.24		0.10	0.050	mg/L		11/12/20 17:09	11/13/20 11:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/12/20 17:09	11/13/20 11:23	1
Calcium	25		2.5	0.50	mg/L		11/12/20 17:09	11/13/20 11:23	1
Chromium	0.25		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:23	1
Cobalt	0.10		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:23	1
Iron	240		0.40	0.20	mg/L		11/12/20 17:09	11/13/20 11:23	1
Lead	0.11		0.0075	0.0075	mg/L		11/12/20 17:09	11/13/20 11:23	1
Manganese	2.9		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:23	1
Nickel	0.30		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:23	1
Potassium	38		2.5	0.50	mg/L		11/12/20 17:09	11/13/20 11:23	1
Selenium	<0.050		0.050	0.020	mg/L		11/12/20 17:09	11/13/20 11:23	1
Silver	<0.025		0.025	0.010	mg/L		11/12/20 17:09	11/13/20 11:23	1
Zinc	0.52		0.50	0.020	mg/L		11/12/20 17:09	11/13/20 11:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		11/12/20 17:06	11/16/20 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/12/20 17:09	11/13/20 14:52	1
Thallium	0.0044		0.0020	0.0020	mg/L		11/12/20 17:09	11/13/20 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00033		0.00033	0.00033	mg/L		11/13/20 09:15	11/16/20 09:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.020	0.0068	mg/Kg	☆	11/13/20 13:25	11/16/20 08:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.30		0.30	0.15	mg/Kg	☆	11/16/20 12:20	11/16/20 17:59	1
pH	7.8		0.2	0.2	SU			11/10/20 16:06	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

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
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds 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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190547-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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

ANALYTICAL REPORT

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

Laboratory Job ID: 500-190192-1
Client Project/Site: IDOT - AE7-039

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190192-1

Client Sample ID: 3043V-10-B09-1

Lab Sample ID: 500-190192-1

Date Collected: 10/27/20 10:30

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0026		0.0026	0.00086	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
1,1,2,2-Tetrachloroethane	<0.0026		0.0026	0.00082	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
1,1,2-Trichloroethane	<0.0026		0.0026	0.0011	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
1,1-Dichloroethane	<0.0026		0.0026	0.00088	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
1,1-Dichloroethene	<0.0026		0.0026	0.00089	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
1,2-Dichloroethane	<0.0064		0.0064	0.0020	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
1,2-Dichloropropane	<0.0026		0.0026	0.00067	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
1,3-Dichloropropane, Total	<0.0026		0.0026	0.00090	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
2-Butanone (MEK)	0.012		0.0064	0.0029	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
2-Hexanone	<0.0064		0.0064	0.0020	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
4-Methyl-2-pentanone (MIBK)	<0.0064		0.0064	0.0019	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Acetone	0.063		0.026	0.011	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Benzene	<0.0026		0.0026	0.00066	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Bromodichloromethane	<0.0026		0.0026	0.00052	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Bromoform	<0.0026		0.0026	0.00075	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Bromomethane	<0.0064		0.0064	0.0024	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Carbon disulfide	<0.0064		0.0064	0.0013	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Carbon tetrachloride	<0.0026		0.0026	0.00075	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Chlorobenzene	<0.0026		0.0026	0.00095	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Chloroethane	<0.0064		0.0064	0.0019	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Chloroform	<0.0026		0.0026	0.00089	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Chloromethane	<0.0064		0.0064	0.0026	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
cis-1,2-Dichloroethene	<0.0026		0.0026	0.00072	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
cis-1,3-Dichloropropene	<0.0026		0.0026	0.00078	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Dibromochloromethane	<0.0026		0.0026	0.00084	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Ethylbenzene	<0.0026		0.0026	0.0012	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Methyl tert-butyl ether	<0.0026		0.0026	0.00076	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Methylene Chloride	<0.0064		0.0064	0.0025	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Styrene	<0.0026		0.0026	0.00078	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Tetrachloroethene	<0.0026		0.0026	0.00088	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Toluene	<0.0026		0.0026	0.00065	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
trans-1,2-Dichloroethene	<0.0026		0.0026	0.0011	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
trans-1,3-Dichloropropene	<0.0026		0.0026	0.00090	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Trichloroethene	<0.0026		0.0026	0.00087	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Vinyl chloride	<0.0026		0.0026	0.0011	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1
Xylenes, Total	<0.0051		0.0051	0.00082	mg/Kg	☆	10/28/20 17:23	10/29/20 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	10/28/20 17:23	10/29/20 12:53	1
4-Bromofluorobenzene (Surr)	106		75 - 131	10/28/20 17:23	10/29/20 12:53	1
Dibromofluoromethane	98		75 - 126	10/28/20 17:23	10/29/20 12:53	1
Toluene-d8 (Surr)	92		75 - 124	10/28/20 17:23	10/29/20 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.22		0.22	0.048	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
1,2-Dichlorobenzene	<0.22		0.22	0.053	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
1,3-Dichlorobenzene	<0.22		0.22	0.050	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
1,4-Dichlorobenzene	<0.22		0.22	0.057	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.051	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190192-1

Client Sample ID: 3043V-10-B09-1

Lab Sample ID: 500-190192-1

Date Collected: 10/27/20 10:30

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.44		0.44	0.10	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
2,4,6-Trichlorophenol	<0.44		0.44	0.15	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
2,4-Dichlorophenol	<0.44		0.44	0.10	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
2,4-Dimethylphenol	<0.44		0.44	0.17	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
2,4-Dinitrophenol	<0.89		0.89	0.78	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
2,4-Dinitrotoluene	<0.22		0.22	0.070	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
2,6-Dinitrotoluene	<0.22		0.22	0.087	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
2-Chloronaphthalene	<0.22		0.22	0.049	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
2-Chlorophenol	<0.22		0.22	0.075	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
2-Methylnaphthalene	0.015	J	0.089	0.0081	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
2-Methylphenol	<0.22		0.22	0.071	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
2-Nitroaniline	<0.22		0.22	0.059	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
2-Nitrophenol	<0.44		0.44	0.10	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
3 & 4 Methylphenol	<0.22		0.22	0.074	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.062	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
3-Nitroaniline	<0.44		0.44	0.14	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
4,6-Dinitro-2-methylphenol	<0.89		0.89	0.36	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.058	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
4-Chloro-3-methylphenol	<0.44		0.44	0.15	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
4-Chloroaniline	<0.89		0.89	0.21	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.052	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
4-Nitroaniline	<0.44		0.44	0.18	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
4-Nitrophenol	<0.89		0.89	0.42	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Acenaphthene	0.0083	J	0.044	0.0079	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Acenaphthylene	0.014	J	0.044	0.0058	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Anthracene	0.019	J	0.044	0.0074	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Benzo[a]anthracene	0.066		0.044	0.0059	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Benzo[a]pyrene	0.095		0.044	0.0086	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Benzo[b]fluoranthene	0.14		0.044	0.0095	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Benzo[g,h,i]perylene	0.058		0.044	0.014	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Benzo[k]fluoranthene	0.048		0.044	0.013	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.045	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.066	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.081	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Butyl benzyl phthalate	<0.22		0.22	0.084	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Chrysene	0.099		0.044	0.012	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Dibenz(a,h)anthracene	0.011	J	0.044	0.0085	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Dibenzofuran	<0.22		0.22	0.052	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Diethyl phthalate	<0.22		0.22	0.075	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Dimethyl phthalate	<0.22		0.22	0.058	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Di-n-butyl phthalate	<0.22		0.22	0.067	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Di-n-octyl phthalate	<0.22		0.22	0.072	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Fluoranthene	0.16		0.044	0.0082	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Fluorene	0.0073	J	0.044	0.0062	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Hexachlorobenzene	<0.089		0.089	0.010	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Hexachlorobutadiene	<0.22		0.22	0.069	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Hexachlorocyclopentadiene	<0.89		0.89	0.25	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Hexachloroethane	<0.22		0.22	0.067	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190192-1

Client Sample ID: 3043V-10-B09-1

Lab Sample ID: 500-190192-1

Date Collected: 10/27/20 10:30

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.054		0.044	0.011	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Isophorone	<0.22		0.22	0.050	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Naphthalene	0.013	J	0.044	0.0068	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Nitrobenzene	<0.044		0.044	0.011	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
N-Nitrosodi-n-propylamine	<0.089		0.089	0.054	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
N-Nitrosodiphenylamine	<0.22		0.22	0.052	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Pentachlorophenol	<0.89		0.89	0.71	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Phenanthrene	0.11		0.044	0.0062	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Phenol	<0.22		0.22	0.098	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1
Pyrene	0.17		0.044	0.0088	mg/Kg	☆	11/06/20 20:25	11/09/20 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		31 - 143	11/06/20 20:25	11/09/20 20:38	1
2-Fluorobiphenyl	75		43 - 145	11/06/20 20:25	11/09/20 20:38	1
2-Fluorophenol	83		31 - 166	11/06/20 20:25	11/09/20 20:38	1
Nitrobenzene-d5	62		37 - 147	11/06/20 20:25	11/09/20 20:38	1
Phenol-d5	75		30 - 153	11/06/20 20:25	11/09/20 20:38	1
Terphenyl-d14	81		42 - 157	11/06/20 20:25	11/09/20 20:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.3	0.25	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Arsenic	5.9		0.65	0.22	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Barium	92		0.65	0.074	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Beryllium	0.69		0.26	0.061	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Boron	11		3.2	0.30	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Cadmium	0.31	B	0.13	0.023	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Calcium	62000	B	130	22	mg/Kg	☆	11/05/20 19:10	11/09/20 08:50	10
Chromium	14		0.65	0.32	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Cobalt	7.9		0.32	0.085	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Copper	24		0.65	0.18	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Iron	17000		13	6.8	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Lead	32		0.32	0.15	mg/Kg	☆	11/05/20 19:10	11/09/20 08:47	1
Magnesium	19000	B	6.5	3.2	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Manganese	230		0.65	0.094	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Nickel	21		0.65	0.19	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Potassium	1300		32	12	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Selenium	0.60	J	0.65	0.38	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Silver	0.33		0.32	0.084	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Sodium	930		65	9.6	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Thallium	<0.65		0.65	0.32	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Vanadium	24		0.32	0.077	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1
Zinc	84		1.3	0.57	mg/Kg	☆	11/05/20 19:10	11/06/20 13:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		11/05/20 17:06	11/06/20 12:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/05/20 17:06	11/06/20 12:07	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190192-1

Client Sample ID: 3043V-10-B09-1

Lab Sample ID: 500-190192-1

Date Collected: 10/27/20 10:30

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/06/20 17:32	11/09/20 17:13	1
Barium	0.079	J	0.50	0.050	mg/L		11/06/20 17:32	11/09/20 17:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/06/20 17:32	11/09/20 17:13	1
Boron	0.11		0.10	0.050	mg/L		11/06/20 17:32	11/09/20 17:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/06/20 17:32	11/09/20 17:13	1
Calcium	13		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:13	1
Chromium	0.015	J	0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:13	1
Cobalt	<0.025		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:13	1
Iron	15		0.40	0.20	mg/L		11/06/20 17:32	11/09/20 17:13	1
Lead	0.017		0.0075	0.0075	mg/L		11/06/20 17:32	11/09/20 17:13	1
Manganese	0.059		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:13	1
Nickel	0.010	J	0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:13	1
Potassium	3.1		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:13	1
Selenium	<0.050		0.050	0.020	mg/L		11/06/20 17:32	11/09/20 17:13	1
Silver	<0.025		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:13	1
Zinc	0.23	J	0.50	0.020	mg/L		11/06/20 17:32	11/09/20 17:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/06/20 17:32	11/11/20 00:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/06/20 17:32	11/11/20 00:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/09/20 09:15	11/10/20 08:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.072		0.021	0.0069	mg/Kg	✱	11/03/20 13:25	11/04/20 08:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.31		0.30	0.15	mg/Kg	✱	11/10/20 13:14	11/10/20 16:10	1
pH	8.1		0.2	0.2	SU			11/03/20 19:18	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190192-1

Client Sample ID: 3043V-10-B09-2

Lab Sample ID: 500-190192-2

Date Collected: 10/27/20 10:35

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Acetone	0.011	J	0.018	0.0079	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☆	10/28/20 17:23	10/29/20 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	10/28/20 17:23	10/29/20 13:19	1
4-Bromofluorobenzene (Surr)	104		75 - 131	10/28/20 17:23	10/29/20 13:19	1
Dibromofluoromethane	100		75 - 126	10/28/20 17:23	10/29/20 13:19	1
Toluene-d8 (Surr)	91		75 - 124	10/28/20 17:23	10/29/20 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190192-1

Client Sample ID: 3043V-10-B09-2

Lab Sample ID: 500-190192-2

Date Collected: 10/27/20 10:35

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☆	11/06/20 20:25	11/09/20 19:45	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190192-1

Client Sample ID: 3043V-10-B09-2

Lab Sample ID: 500-190192-2

Date Collected: 10/27/20 10:35

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	✱	11/06/20 20:25	11/09/20 19:45	1
Isophorone	<0.21		0.21	0.046	mg/Kg	✱	11/06/20 20:25	11/09/20 19:45	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	✱	11/06/20 20:25	11/09/20 19:45	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	✱	11/06/20 20:25	11/09/20 19:45	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.051	mg/Kg	✱	11/06/20 20:25	11/09/20 19:45	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	✱	11/06/20 20:25	11/09/20 19:45	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	✱	11/06/20 20:25	11/09/20 19:45	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	✱	11/06/20 20:25	11/09/20 19:45	1
Phenol	<0.21		0.21	0.092	mg/Kg	✱	11/06/20 20:25	11/09/20 19:45	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	✱	11/06/20 20:25	11/09/20 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		31 - 143	11/06/20 20:25	11/09/20 19:45	1
2-Fluorobiphenyl	79		43 - 145	11/06/20 20:25	11/09/20 19:45	1
2-Fluorophenol	87		31 - 166	11/06/20 20:25	11/09/20 19:45	1
Nitrobenzene-d5	67		37 - 147	11/06/20 20:25	11/09/20 19:45	1
Phenol-d5	77		30 - 153	11/06/20 20:25	11/09/20 19:45	1
Terphenyl-d14	82		42 - 157	11/06/20 20:25	11/09/20 19:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.2	0.23	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Arsenic	5.4		0.59	0.20	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Barium	46		0.59	0.068	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Beryllium	0.58		0.24	0.055	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Boron	10		3.0	0.28	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Cadmium	<0.12		0.12	0.021	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Calcium	72000	B	120	20	mg/Kg	✱	11/05/20 19:10	11/09/20 08:57	10
Chromium	15		0.59	0.29	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Cobalt	9.2		0.30	0.078	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Copper	23		0.59	0.17	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Iron	16000		12	6.2	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Lead	14		0.30	0.14	mg/Kg	✱	11/05/20 19:10	11/09/20 08:53	1
Magnesium	30000	B	5.9	2.9	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Manganese	320		0.59	0.086	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Nickel	26		0.59	0.17	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Potassium	2200		30	11	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Selenium	0.35	J	0.59	0.35	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Silver	0.18	J	0.30	0.077	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Sodium	910		59	8.8	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Thallium	<0.59		0.59	0.30	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Vanadium	22		0.30	0.070	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1
Zinc	52		1.2	0.52	mg/Kg	✱	11/05/20 19:10	11/06/20 13:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		11/05/20 17:06	11/06/20 12:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/05/20 17:06	11/06/20 12:11	1
Manganese	2.4		0.025	0.010	mg/L		11/05/20 17:06	11/06/20 12:11	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190192-1

Client Sample ID: 3043V-10-B09-2

Lab Sample ID: 500-190192-2

Date Collected: 10/27/20 10:35

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.021	J	0.050	0.010	mg/L		11/06/20 17:32	11/09/20 17:16	1
Barium	0.19	J	0.50	0.050	mg/L		11/06/20 17:32	11/09/20 17:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/06/20 17:32	11/09/20 17:16	1
Boron	0.080	J	0.10	0.050	mg/L		11/06/20 17:32	11/09/20 17:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/06/20 17:32	11/09/20 17:16	1
Calcium	9.5		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:16	1
Chromium	0.061		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:16	1
Cobalt	0.026		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:16	1
Iron	67		0.40	0.20	mg/L		11/06/20 17:32	11/09/20 17:16	1
Lead	0.046		0.0075	0.0075	mg/L		11/06/20 17:32	11/09/20 17:16	1
Manganese	0.38		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:16	1
Nickel	0.080		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:16	1
Potassium	11		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:16	1
Selenium	<0.050		0.050	0.020	mg/L		11/06/20 17:32	11/09/20 17:16	1
Silver	<0.025		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:16	1
Zinc	0.17	J	0.50	0.020	mg/L		11/06/20 17:32	11/09/20 17:16	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		11/05/20 17:06	11/11/20 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/06/20 17:32	11/11/20 00:03	1
Thallium	0.0025		0.0020	0.0020	mg/L		11/06/20 17:32	11/11/20 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/09/20 09:15	11/10/20 08:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.020	0.0067	mg/Kg	☆	11/03/20 13:25	11/04/20 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.29	0.14	mg/Kg	☆	11/10/20 13:14	11/10/20 16:12	1
pH	8.2		0.2	0.2	SU			11/03/20 19:21	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190192-1

Client Sample ID: 3043V-10-B08

Lab Sample ID: 500-190192-3

Date Collected: 10/27/20 10:40

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Acetone	<0.018		0.018	0.0079	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☆	10/28/20 17:23	10/29/20 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	10/28/20 17:23	10/29/20 13:44	1
4-Bromofluorobenzene (Surr)	103		75 - 131	10/28/20 17:23	10/29/20 13:44	1
Dibromofluoromethane	99		75 - 126	10/28/20 17:23	10/29/20 13:44	1
Toluene-d8 (Surr)	90		75 - 124	10/28/20 17:23	10/29/20 13:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190192-1

Client Sample ID: 3043V-10-B08

Lab Sample ID: 500-190192-3

Date Collected: 10/27/20 10:40

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Anthracene	0.0066	J	0.039	0.0066	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Benzo[a]anthracene	0.022	J	0.039	0.0053	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Benzo[a]pyrene	0.021	J	0.039	0.0076	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Benzo[b]fluoranthene	0.030	J	0.039	0.0085	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Benzo[g,h,i]perylene	0.014	J	0.039	0.013	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Chrysene	0.024	J	0.039	0.011	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Fluoranthene	0.035	J	0.039	0.0073	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☆	11/06/20 20:25	11/09/20 20:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190192-1

Client Sample ID: 3043V-10-B08

Lab Sample ID: 500-190192-3

Date Collected: 10/27/20 10:40

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.012	J	0.039	0.010	mg/Kg	✱	11/06/20 20:25	11/09/20 20:12	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✱	11/06/20 20:25	11/09/20 20:12	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	✱	11/06/20 20:25	11/09/20 20:12	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	✱	11/06/20 20:25	11/09/20 20:12	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	✱	11/06/20 20:25	11/09/20 20:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✱	11/06/20 20:25	11/09/20 20:12	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	✱	11/06/20 20:25	11/09/20 20:12	1
Phenanthrene	0.030	J	0.039	0.0055	mg/Kg	✱	11/06/20 20:25	11/09/20 20:12	1
Phenol	<0.20		0.20	0.088	mg/Kg	✱	11/06/20 20:25	11/09/20 20:12	1
Pyrene	0.045		0.039	0.0078	mg/Kg	✱	11/06/20 20:25	11/09/20 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		31 - 143				11/06/20 20:25	11/09/20 20:12	1
2-Fluorobiphenyl	82		43 - 145				11/06/20 20:25	11/09/20 20:12	1
2-Fluorophenol	84		31 - 166				11/06/20 20:25	11/09/20 20:12	1
Nitrobenzene-d5	70		37 - 147				11/06/20 20:25	11/09/20 20:12	1
Phenol-d5	74		30 - 153				11/06/20 20:25	11/09/20 20:12	1
Terphenyl-d14	85		42 - 157				11/06/20 20:25	11/09/20 20:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.1	0.22	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Arsenic	8.0		0.56	0.19	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Barium	90		0.56	0.064	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Beryllium	0.77		0.22	0.052	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Boron	8.8		2.8	0.26	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Cadmium	0.072	J B	0.11	0.020	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Calcium	24000	B	11	1.9	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Chromium	18		0.56	0.28	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Cobalt	12		0.28	0.073	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Copper	21		0.56	0.16	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Iron	20000		11	5.8	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Lead	25		0.28	0.13	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Magnesium	15000	B	5.6	2.8	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Manganese	410		0.56	0.081	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Nickel	31		0.56	0.16	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Potassium	2100		28	9.9	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Selenium	<0.56		0.56	0.33	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Silver	0.34		0.28	0.072	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Sodium	310		56	8.3	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Thallium	<0.56		0.56	0.28	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Vanadium	27		0.28	0.066	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1
Zinc	74		1.1	0.49	mg/Kg	✱	11/05/20 19:10	11/06/20 14:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		11/05/20 17:06	11/06/20 12:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/05/20 17:06	11/06/20 12:14	1
Manganese	0.43		0.025	0.010	mg/L		11/05/20 17:06	11/06/20 12:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190192-1

Client Sample ID: 3043V-10-B08

Lab Sample ID: 500-190192-3

Date Collected: 10/27/20 10:40

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.027	J	0.050	0.010	mg/L		11/06/20 17:32	11/09/20 17:19	1
Barium	0.31	J	0.50	0.050	mg/L		11/06/20 17:32	11/09/20 17:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/06/20 17:32	11/09/20 17:19	1
Boron	0.10		0.10	0.050	mg/L		11/06/20 17:32	11/09/20 17:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/06/20 17:32	11/09/20 17:19	1
Calcium	22		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:19	1
Chromium	0.079		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:19	1
Cobalt	0.015	J	0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:19	1
Iron	74		0.40	0.20	mg/L		11/06/20 17:32	11/09/20 17:19	1
Lead	0.047		0.0075	0.0075	mg/L		11/06/20 17:32	11/09/20 17:19	1
Manganese	0.27		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:19	1
Nickel	0.066		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:19	1
Potassium	15		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:19	1
Selenium	<0.050		0.050	0.020	mg/L		11/06/20 17:32	11/09/20 17:19	1
Silver	<0.025		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:19	1
Zinc	0.20	J	0.50	0.020	mg/L		11/06/20 17:32	11/09/20 17:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/06/20 17:32	11/11/20 00:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/06/20 17:32	11/11/20 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/09/20 09:15	11/10/20 08:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0059	mg/Kg	⚠	11/03/20 13:25	11/04/20 08:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.33		0.33	0.17	mg/Kg	⚠	11/10/20 13:14	11/10/20 16:14	1
pH	8.5		0.2	0.2	SU			11/03/20 19:23	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190192-1

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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190192-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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





Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 3512 (US 14) Office Phone Number, if available: _____

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

327-375 South Mount Prospect Road and 11-21 Cranbrook Drive

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.05753 Longitude: - 87.92115

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

Approximate Start Date (mm/dd/yyyy): N/A Approximate End Date (mm/dd/yyyy): N/A

Estimated Volume of debris (cu. Yd.): 35

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil 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 3043V-25-B01 WAS SAMPLED ADJACENT TO SITE 3043V-25. SEE TABLE 3c AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-190267-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Dec 14, 2020

Date:



The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 3043V-25

Residence

Sample ID	3043V-25-B01	Maximum Allowable Concentration					
Sample Depth (ft)	0-2						
Sample Date	10/28/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area	
PID	0						
Sample pH	8.1						
Matrix	Soil						
Semivolatile Organic Compounds (mg/kg)							
Benzo(a)pyrene	0.11	1,2	0.09	0.09	0.98	1.3	2.1

ANALYTICAL REPORT

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

Laboratory Job ID: 500-190267-1
Client Project/Site: IDOT - AE7-039

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
11/13/2020 9:08:54 AM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190267-1

Client Sample ID: 3043V-25-B01

Lab Sample ID: 500-190267-1

Date Collected: 10/28/20 10:00

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00091	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
1,1-Dichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
1,1-Dichloroethene	<0.0021		0.0021	0.00073	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
1,2-Dichloroethane	<0.0053		0.0053	0.0016	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00074	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
2-Butanone (MEK)	<0.0053		0.0053	0.0023	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Acetone	<0.021		0.021	0.0092	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Carbon tetrachloride	<0.0021 *		0.0021	0.00061	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Chlorobenzene	<0.0021		0.0021	0.00078	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Chloroform	<0.0021		0.0021	0.00073	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Tetrachloroethene	<0.0021		0.0021	0.00072	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00093	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Trichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Vinyl chloride	<0.0021		0.0021	0.00093	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1
Xylenes, Total	<0.0042		0.0042	0.00068	mg/Kg	☆	10/29/20 17:29	11/04/20 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	10/29/20 17:29	11/04/20 13:23	1
4-Bromofluorobenzene (Surr)	104		75 - 131	10/29/20 17:29	11/04/20 13:23	1
Dibromofluoromethane	104		75 - 126	10/29/20 17:29	11/04/20 13:23	1
Toluene-d8 (Surr)	92		75 - 124	10/29/20 17:29	11/04/20 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190267-1

Client Sample ID: 3043V-25-B01

Lab Sample ID: 500-190267-1

Date Collected: 10/28/20 10:00

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Acenaphthylene	0.0085	J	0.039	0.0052	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Anthracene	0.016	J	0.039	0.0065	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Benzo[a]anthracene	0.083		0.039	0.0053	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Benzo[a]pyrene	0.11		0.039	0.0076	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Benzo[b]fluoranthene	0.16		0.039	0.0085	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Benzo[g,h,i]perylene	0.043		0.039	0.013	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Benzo[k]fluoranthene	0.068		0.039	0.012	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Chrysene	0.13		0.039	0.011	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Dibenz(a,h)anthracene	0.012	J	0.039	0.0076	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Fluoranthene	0.20		0.039	0.0073	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190267-1

Client Sample ID: 3043V-25-B01

Lab Sample ID: 500-190267-1

Date Collected: 10/28/20 10:00

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.011	J	0.039	0.010	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Phenanthrene	0.12		0.039	0.0055	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Phenol	<0.20		0.20	0.087	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1
Pyrene	0.23		0.039	0.0078	mg/Kg	☆	11/09/20 06:37	11/10/20 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		31 - 143	11/09/20 06:37	11/10/20 21:32	1
2-Fluorobiphenyl	66		43 - 145	11/09/20 06:37	11/10/20 21:32	1
2-Fluorophenol	73		31 - 166	11/09/20 06:37	11/10/20 21:32	1
Nitrobenzene-d5	86		37 - 147	11/09/20 06:37	11/10/20 21:32	1
Phenol-d5	63		30 - 153	11/09/20 06:37	11/10/20 21:32	1
Terphenyl-d14	79		42 - 157	11/09/20 06:37	11/10/20 21:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.1	0.22	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Arsenic	6.2		0.56	0.19	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Barium	89		0.56	0.064	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Beryllium	0.85		0.22	0.052	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Boron	9.7		2.8	0.26	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Cadmium	0.33	B	0.11	0.020	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Calcium	24000		11	1.9	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Chromium	18		0.56	0.28	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Cobalt	9.8		0.28	0.074	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Copper	26		0.56	0.16	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Iron	17000		11	5.8	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Lead	21		0.28	0.13	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Magnesium	14000		5.6	2.8	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Manganese	350		0.56	0.081	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Nickel	27		0.56	0.16	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Potassium	2000		28	9.9	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Selenium	<0.56		0.56	0.33	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Silver	<0.28		0.28	0.072	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Sodium	130		56	8.3	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Thallium	<0.56		0.56	0.28	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Vanadium	28		0.28	0.066	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	1
Zinc	69		1.1	0.49	mg/Kg	☆	11/09/20 18:58	11/10/20 09:41	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	—	11/09/20 17:32	11/10/20 16:07	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190267-1

Client Sample ID: 3043V-25-B01

Lab Sample ID: 500-190267-1

Date Collected: 10/28/20 10:00

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/09/20 17:34	11/10/20 17:33	1
Barium	<0.50		0.50	0.050	mg/L		11/09/20 17:34	11/10/20 17:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/09/20 17:34	11/10/20 17:33	1
Boron	<0.10		0.10	0.050	mg/L		11/09/20 17:34	11/10/20 17:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/09/20 17:34	11/10/20 17:33	1
Calcium	14		2.5	0.50	mg/L		11/09/20 17:34	11/10/20 17:33	1
Chromium	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:33	1
Cobalt	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:33	1
Iron	8.3		0.40	0.20	mg/L		11/09/20 17:34	11/10/20 17:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/09/20 17:34	11/10/20 17:33	1
Manganese	0.032		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:33	1
Nickel	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:33	1
Potassium	2.3 J		2.5	0.50	mg/L		11/09/20 17:34	11/10/20 17:33	1
Selenium	<0.050		0.050	0.020	mg/L		11/09/20 17:34	11/10/20 17:33	1
Silver	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:33	1
Zinc	0.025 J		0.50	0.020	mg/L		11/09/20 17:34	11/10/20 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/09/20 17:34	11/10/20 21:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/09/20 17:34	11/10/20 21:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/10/20 09:25	11/11/20 08:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047 B		0.018	0.0061	mg/Kg	✱	11/05/20 13:30	11/06/20 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.16 J		0.31	0.15	mg/Kg	✱	11/11/20 10:03	11/11/20 12:45	1
pH	8.1		0.2	0.2	SU			11/03/20 18:54	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190267-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
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
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
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190267-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

- 1
- 2
- 3
- 4
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- 9
- 10
- 11
- 12
- 13
- 14
- 15





Illinois Environmental Protection Agency

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3512 (US 14) Office Phone Number, if available: _____

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

22-52 East Northwest Highway

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.05637 Longitude: -87.92051

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

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

IEPA Site Number(s), if assigned: BOL: 0310635393 BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): N/A Approximate End Date (mm/dd/yyyy): N/A

Estimated Volume of debris (cu. Yd.): 477

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil 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 3043V-26-B02, 3043V-26-B03 AND 3043V-26-B05 WERE SAMPLED ADJACENT TO SITE 3043V-26. SEE TABLE 3d AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-190270-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Dec 14, 2020

Date:



The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 3043V-26
Commercial Building

Sample ID	3043V-26-B02	3043V-26-B03	3043V-26-B05	Maximum Allowable Concentration				
Sample Depth (ft)	0-8	0-7	0-2	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample Date	10/28/2020	10/28/2020	10/28/2020					
PID	0	0	0					
Sample pH	8.4	7.9	8.3					
Matrix	Soil	Soil	Soil					
No Contaminants of Concern Noted.								

ANALYTICAL REPORT

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

Laboratory Job ID: 500-190270-1
Client Project/Site: IDOT - AE7-039

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
11/13/2020 9:13:05 AM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190270-1

Client Sample ID: 3043V-26-B05

Lab Sample ID: 500-190270-1

Date Collected: 10/28/20 10:05

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Acetone	<0.019		0.019	0.0082	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☆	10/29/20 17:29	11/01/20 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	10/29/20 17:29	11/01/20 20:00	1
4-Bromofluorobenzene (Surr)	108		75 - 131	10/29/20 17:29	11/01/20 20:00	1
Dibromofluoromethane	98		75 - 126	10/29/20 17:29	11/01/20 20:00	1
Toluene-d8 (Surr)	91		75 - 124	10/29/20 17:29	11/01/20 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190270-1

Client Sample ID: 3043V-26-B05

Lab Sample ID: 500-190270-1

Date Collected: 10/28/20 10:05

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
2-Methylphenol	<0.21	F1	0.21	0.066	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Acenaphthylene	0.0080	J	0.041	0.0054	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Anthracene	0.0071	J	0.041	0.0069	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Benzo[a]anthracene	0.058		0.041	0.0056	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Benzo[a]pyrene	0.090		0.041	0.0080	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Benzo[b]fluoranthene	0.13		0.041	0.0089	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Benzo[g,h,i]perylene	0.054		0.041	0.013	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Benzo[k]fluoranthene	0.053		0.041	0.012	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Chrysene	0.10		0.041	0.011	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Dibenz(a,h)anthracene	0.012	J	0.041	0.0080	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Fluoranthene	0.15		0.041	0.0077	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Hexachloroethane	<0.21	F1	0.21	0.063	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190270-1

Client Sample ID: 3043V-26-B05

Lab Sample ID: 500-190270-1

Date Collected: 10/28/20 10:05

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.051		0.041	0.011	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
N-Nitrosodi-n-propylamine	<0.083	F1	0.083	0.050	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Phenanthrene	0.043		0.041	0.0058	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Phenol	<0.21		0.21	0.092	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Pyrene	0.14		0.041	0.0082	mg/Kg	☆	11/10/20 06:31	11/12/20 02:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	39		31 - 143				11/10/20 06:31	11/12/20 02:33	1
2-Fluorobiphenyl	76		43 - 145				11/10/20 06:31	11/12/20 02:33	1
2-Fluorophenol	75		31 - 166				11/10/20 06:31	11/12/20 02:33	1
Nitrobenzene-d5	72		37 - 147				11/10/20 06:31	11/12/20 02:33	1
Phenol-d5	70		30 - 153				11/10/20 06:31	11/12/20 02:33	1
Terphenyl-d14	92		42 - 157				11/10/20 06:31	11/12/20 02:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.2	0.23	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Arsenic	9.2		0.59	0.20	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Barium	170		0.59	0.067	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Beryllium	0.87		0.24	0.055	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Boron	6.2		2.9	0.27	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Cadmium	0.40	B	0.12	0.021	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Calcium	4100		12	2.0	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Chromium	21		0.59	0.29	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Cobalt	27		0.29	0.077	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Copper	13		0.59	0.16	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Iron	26000		12	6.1	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Lead	18		0.29	0.14	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Magnesium	4000		5.9	2.9	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Manganese	3400		2.9	0.43	mg/Kg	☆	11/09/20 18:58	11/10/20 12:14	5
Nickel	48		0.59	0.17	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Potassium	1700		29	10	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Selenium	<0.59		0.59	0.35	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Silver	<1.5		1.5	0.38	mg/Kg	☆	11/09/20 18:58	11/10/20 12:14	5
Sodium	450		59	8.7	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Thallium	2.4	J	2.9	1.5	mg/Kg	☆	11/09/20 18:58	11/10/20 12:14	5
Vanadium	36		0.29	0.069	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1
Zinc	66		1.2	0.52	mg/Kg	☆	11/09/20 18:58	11/10/20 09:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		11/09/20 17:32	11/10/20 16:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/09/20 17:32	11/10/20 16:26	1
Manganese	0.022	J	0.025	0.010	mg/L		11/09/20 17:32	11/10/20 16:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190270-1

Client Sample ID: 3043V-26-B05

Lab Sample ID: 500-190270-1

Date Collected: 10/28/20 10:05

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.014	J	0.050	0.010	mg/L		11/09/20 17:34	11/10/20 17:43	1
Barium	0.27	J	0.50	0.050	mg/L		11/09/20 17:34	11/10/20 17:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/09/20 17:34	11/10/20 17:43	1
Boron	0.058	J	0.10	0.050	mg/L		11/09/20 17:34	11/10/20 17:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/09/20 17:34	11/10/20 17:43	1
Calcium	11		2.5	0.50	mg/L		11/09/20 17:34	11/10/20 17:43	1
Chromium	0.066		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:43	1
Cobalt	0.016	J	0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:43	1
Iron	69		0.40	0.20	mg/L		11/09/20 17:34	11/10/20 17:43	1
Lead	0.018		0.0075	0.0075	mg/L		11/09/20 17:34	11/10/20 17:43	1
Manganese	0.32		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:43	1
Nickel	0.049		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:43	1
Potassium	8.2		2.5	0.50	mg/L		11/09/20 17:34	11/10/20 17:43	1
Selenium	<0.050		0.050	0.020	mg/L		11/09/20 17:34	11/10/20 17:43	1
Silver	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:43	1
Zinc	0.14	J	0.50	0.020	mg/L		11/09/20 17:34	11/10/20 17:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/09/20 17:34	11/10/20 21:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/09/20 17:34	11/10/20 21:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/10/20 09:25	11/11/20 08:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.020	0.0067	mg/Kg	✱	11/09/20 13:35	11/10/20 07:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.36		0.28	0.14	mg/Kg	✱	11/11/20 10:03	11/11/20 13:08	1
pH	8.3		0.2	0.2	SU			11/03/20 21:34	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190270-1

Client Sample ID: 3043V-26-B02

Lab Sample ID: 500-190270-4

Date Collected: 10/28/20 10:35

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Acetone	<0.018		0.018	0.0076	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00051	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☆	10/29/20 17:29	11/01/20 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	10/29/20 17:29	11/01/20 21:16	1
4-Bromofluorobenzene (Surr)	109		75 - 131	10/29/20 17:29	11/01/20 21:16	1
Dibromofluoromethane	100		75 - 126	10/29/20 17:29	11/01/20 21:16	1
Toluene-d8 (Surr)	93		75 - 124	10/29/20 17:29	11/01/20 21:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190270-1

Client Sample ID: 3043V-26-B02

Lab Sample ID: 500-190270-4

Date Collected: 10/28/20 10:35

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☆	11/10/20 06:31	11/12/20 03:41	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190270-1

Client Sample ID: 3043V-26-B02

Lab Sample ID: 500-190270-4

Date Collected: 10/28/20 10:35

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	✱	11/10/20 06:31	11/12/20 03:41	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✱	11/10/20 06:31	11/12/20 03:41	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	✱	11/10/20 06:31	11/12/20 03:41	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	✱	11/10/20 06:31	11/12/20 03:41	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	✱	11/10/20 06:31	11/12/20 03:41	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	✱	11/10/20 06:31	11/12/20 03:41	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	✱	11/10/20 06:31	11/12/20 03:41	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	✱	11/10/20 06:31	11/12/20 03:41	1
Phenol	<0.20		0.20	0.087	mg/Kg	✱	11/10/20 06:31	11/12/20 03:41	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	✱	11/10/20 06:31	11/12/20 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		31 - 143	11/10/20 06:31	11/12/20 03:41	1
2-Fluorobiphenyl	86		43 - 145	11/10/20 06:31	11/12/20 03:41	1
2-Fluorophenol	87		31 - 166	11/10/20 06:31	11/12/20 03:41	1
Nitrobenzene-d5	81		37 - 147	11/10/20 06:31	11/12/20 03:41	1
Phenol-d5	80		30 - 153	11/10/20 06:31	11/12/20 03:41	1
Terphenyl-d14	101		42 - 157	11/10/20 06:31	11/12/20 03:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J	1.1	0.21	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Arsenic	8.6		0.54	0.18	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Barium	41		0.54	0.062	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Beryllium	0.77		0.22	0.050	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Boron	15		2.7	0.25	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Cadmium	0.13	B	0.11	0.019	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Calcium	73000		110	18	mg/Kg	✱	11/09/20 18:58	11/10/20 12:33	10
Chromium	17		0.54	0.27	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Cobalt	13		0.27	0.071	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Copper	26		0.54	0.15	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Iron	21000		11	5.6	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Lead	15		0.27	0.12	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Magnesium	30000		5.4	2.7	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Manganese	420		0.54	0.078	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Nickel	31		0.54	0.16	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Potassium	3300		27	9.6	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Selenium	<0.54		0.54	0.32	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Silver	<0.27		0.27	0.070	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Sodium	420		54	8.0	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Thallium	<0.54		0.54	0.27	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Vanadium	23		0.27	0.064	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1
Zinc	59		1.1	0.47	mg/Kg	✱	11/09/20 18:58	11/10/20 10:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/09/20 17:32	11/10/20 16:36	1
Chromium	<0.025		0.025	0.010	mg/L		11/09/20 17:32	11/10/20 16:36	1
Iron	<0.40		0.40	0.20	mg/L		11/09/20 17:32	11/10/20 16:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/09/20 17:32	11/10/20 16:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190270-1

Client Sample ID: 3043V-26-B02

Lab Sample ID: 500-190270-4

Date Collected: 10/28/20 10:35

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.64		0.025	0.010	mg/L		11/09/20 17:32	11/10/20 16:36	1
Nickel	<0.025		0.025	0.010	mg/L		11/09/20 17:32	11/10/20 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.044	J	0.050	0.010	mg/L		11/09/20 17:34	11/10/20 18:02	1
Barium	0.30	J	0.50	0.050	mg/L		11/09/20 17:34	11/10/20 18:02	1
Beryllium	0.0044		0.0040	0.0040	mg/L		11/09/20 17:34	11/10/20 18:02	1
Boron	0.16		0.10	0.050	mg/L		11/09/20 17:34	11/10/20 18:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/09/20 17:34	11/10/20 18:02	1
Calcium	30		2.5	0.50	mg/L		11/09/20 17:34	11/10/20 18:02	1
Chromium	0.11		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:02	1
Cobalt	0.038		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:02	1
Iron	110		0.40	0.20	mg/L		11/09/20 17:34	11/10/20 18:02	1
Lead	0.052		0.0075	0.0075	mg/L		11/09/20 17:34	11/10/20 18:02	1
Manganese	0.43		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:02	1
Nickel	0.13		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:02	1
Potassium	27		2.5	0.50	mg/L		11/09/20 17:34	11/10/20 18:02	1
Selenium	<0.050		0.050	0.020	mg/L		11/09/20 17:34	11/10/20 18:02	1
Silver	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:02	1
Zinc	0.28	J	0.50	0.020	mg/L		11/09/20 17:34	11/10/20 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		11/09/20 17:32	11/11/20 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/09/20 17:34	11/10/20 22:06	1
Thallium	0.0038		0.0020	0.0020	mg/L		11/09/20 17:34	11/10/20 22:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/10/20 09:25	11/11/20 09:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0061	mg/Kg	☆	11/09/20 13:35	11/10/20 07:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.25	0.12	mg/Kg	☆	11/11/20 10:03	11/11/20 13:12	1
pH	8.4		0.2	0.2	SU			11/03/20 21:41	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190270-1

Client Sample ID: 3043V-26-B03

Lab Sample ID: 500-190270-5

Date Collected: 10/28/20 10:45

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 72.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0022		0.0022	0.00074	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00071	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00095	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
1,1-Dichloroethane	<0.0022		0.0022	0.00076	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
1,1-Dichloroethene	<0.0022		0.0022	0.00076	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
1,2-Dichloroethane	<0.0055		0.0055	0.0017	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
1,2-Dichloropropane	<0.0022		0.0022	0.00057	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.00078	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
2-Butanone (MEK)	<0.0055		0.0055	0.0025	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0016	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Acetone	0.018	J	0.022	0.0097	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Benzene	<0.0022		0.0022	0.00057	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Bromodichloromethane	<0.0022		0.0022	0.00045	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Bromoform	<0.0022		0.0022	0.00065	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Bromomethane	<0.0055		0.0055	0.0021	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Carbon disulfide	<0.0055		0.0055	0.0012	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Carbon tetrachloride	<0.0022		0.0022	0.00064	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Chlorobenzene	<0.0022		0.0022	0.00082	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Chloroethane	<0.0055		0.0055	0.0016	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Chloroform	<0.0022		0.0022	0.00077	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Chloromethane	<0.0055		0.0055	0.0022	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00062	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00067	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Dibromochloromethane	<0.0022		0.0022	0.00073	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Ethylbenzene	<0.0022		0.0022	0.0011	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00065	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Methylene Chloride	<0.0055		0.0055	0.0022	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Styrene	<0.0022		0.0022	0.00067	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Tetrachloroethene	<0.0022		0.0022	0.00076	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Toluene	<0.0022		0.0022	0.00056	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00098	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00078	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Trichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Vinyl chloride	<0.0022		0.0022	0.00098	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1
Xylenes, Total	<0.0044		0.0044	0.00071	mg/Kg	☆	10/29/20 17:29	11/01/20 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	10/29/20 17:29	11/01/20 21:42	1
4-Bromofluorobenzene (Surr)	111		75 - 131	10/29/20 17:29	11/01/20 21:42	1
Dibromofluoromethane	98		75 - 126	10/29/20 17:29	11/01/20 21:42	1
Toluene-d8 (Surr)	92		75 - 124	10/29/20 17:29	11/01/20 21:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.23		0.23	0.049	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
1,2-Dichlorobenzene	<0.23		0.23	0.055	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
1,3-Dichlorobenzene	<0.23		0.23	0.052	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
1,4-Dichlorobenzene	<0.23		0.23	0.059	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
2,2'-oxybis[1-chloropropane]	<0.23		0.23	0.053	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190270-1

Client Sample ID: 3043V-26-B03

Lab Sample ID: 500-190270-5

Date Collected: 10/28/20 10:45

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 72.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.45		0.45	0.10	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
2,4,6-Trichlorophenol	<0.45		0.45	0.16	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
2,4-Dichlorophenol	<0.45		0.45	0.11	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
2,4-Dimethylphenol	<0.45		0.45	0.17	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
2,4-Dinitrophenol	<0.92		0.92	0.81	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
2,4-Dinitrotoluene	<0.23		0.23	0.073	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
2,6-Dinitrotoluene	<0.23		0.23	0.090	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
2-Chloronaphthalene	<0.23		0.23	0.051	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
2-Chlorophenol	<0.23		0.23	0.078	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
2-Methylnaphthalene	<0.092		0.092	0.0084	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
2-Methylphenol	<0.23		0.23	0.073	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
2-Nitroaniline	<0.23		0.23	0.062	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
2-Nitrophenol	<0.45		0.45	0.11	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
3 & 4 Methylphenol	<0.23		0.23	0.076	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
3,3'-Dichlorobenzidine	<0.23		0.23	0.064	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
3-Nitroaniline	<0.45		0.45	0.14	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
4,6-Dinitro-2-methylphenol	<0.92		0.92	0.37	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
4-Bromophenyl phenyl ether	<0.23		0.23	0.060	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
4-Chloro-3-methylphenol	<0.45		0.45	0.16	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
4-Chloroaniline	<0.92		0.92	0.21	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
4-Chlorophenyl phenyl ether	<0.23		0.23	0.053	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
4-Nitroaniline	<0.45		0.45	0.19	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
4-Nitrophenol	<0.92		0.92	0.44	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Acenaphthene	<0.045		0.045	0.0082	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Acenaphthylene	<0.045		0.045	0.0060	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Anthracene	<0.045		0.045	0.0076	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Benzo[a]anthracene	<0.045		0.045	0.0062	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Benzo[a]pyrene	<0.045		0.045	0.0089	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Benzo[b]fluoranthene	<0.045		0.045	0.0099	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Benzo[g,h,i]perylene	<0.045		0.045	0.015	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Benzo[k]fluoranthene	<0.045		0.045	0.013	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Bis(2-chloroethoxy)methane	<0.23		0.23	0.047	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Bis(2-chloroethyl)ether	<0.23		0.23	0.069	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Bis(2-ethylhexyl) phthalate	<0.23		0.23	0.084	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Butyl benzyl phthalate	<0.23		0.23	0.087	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Carbazole	<0.23		0.23	0.11	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Chrysene	<0.045		0.045	0.012	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Dibenz(a,h)anthracene	<0.045		0.045	0.0088	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Dibenzofuran	<0.23		0.23	0.054	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Diethyl phthalate	<0.23		0.23	0.078	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Dimethyl phthalate	<0.23		0.23	0.060	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Di-n-butyl phthalate	<0.23		0.23	0.070	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Di-n-octyl phthalate	<0.23		0.23	0.075	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Fluoranthene	<0.045		0.045	0.0085	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Fluorene	<0.045		0.045	0.0064	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Hexachlorobenzene	<0.092		0.092	0.011	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Hexachlorobutadiene	<0.23		0.23	0.072	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Hexachlorocyclopentadiene	<0.92		0.92	0.26	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1
Hexachloroethane	<0.23		0.23	0.070	mg/Kg	☆	11/10/20 06:31	11/12/20 04:03	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190270-1

Client Sample ID: 3043V-26-B03

Lab Sample ID: 500-190270-5

Date Collected: 10/28/20 10:45

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 72.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.045		0.045	0.012	mg/Kg	✱	11/10/20 06:31	11/12/20 04:03	1
Isophorone	<0.23		0.23	0.051	mg/Kg	✱	11/10/20 06:31	11/12/20 04:03	1
Naphthalene	<0.045		0.045	0.0070	mg/Kg	✱	11/10/20 06:31	11/12/20 04:03	1
Nitrobenzene	<0.045		0.045	0.011	mg/Kg	✱	11/10/20 06:31	11/12/20 04:03	1
N-Nitrosodi-n-propylamine	<0.092		0.092	0.056	mg/Kg	✱	11/10/20 06:31	11/12/20 04:03	1
N-Nitrosodiphenylamine	<0.23		0.23	0.054	mg/Kg	✱	11/10/20 06:31	11/12/20 04:03	1
Pentachlorophenol	<0.92		0.92	0.73	mg/Kg	✱	11/10/20 06:31	11/12/20 04:03	1
Phenanthrene	<0.045		0.045	0.0064	mg/Kg	✱	11/10/20 06:31	11/12/20 04:03	1
Phenol	<0.23		0.23	0.10	mg/Kg	✱	11/10/20 06:31	11/12/20 04:03	1
Pyrene	<0.045		0.045	0.0091	mg/Kg	✱	11/10/20 06:31	11/12/20 04:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	97		31 - 143	11/10/20 06:31	11/12/20 04:03	1
2-Fluorobiphenyl	70		43 - 145	11/10/20 06:31	11/12/20 04:03	1
2-Fluorophenol	81		31 - 166	11/10/20 06:31	11/12/20 04:03	1
Nitrobenzene-d5	69		37 - 147	11/10/20 06:31	11/12/20 04:03	1
Phenol-d5	74		30 - 153	11/10/20 06:31	11/12/20 04:03	1
Terphenyl-d14	103		42 - 157	11/10/20 06:31	11/12/20 04:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.3	0.25	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Arsenic	8.8		0.64	0.22	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Barium	120		0.64	0.073	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Beryllium	0.95		0.26	0.060	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Boron	8.4		3.2	0.30	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Cadmium	<0.13		0.13	0.023	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Calcium	3500		13	2.2	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Chromium	21		0.64	0.32	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Cobalt	16		0.32	0.084	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Copper	14		0.64	0.18	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Iron	27000		13	6.6	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Lead	17		0.32	0.15	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Magnesium	4100		6.4	3.2	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Manganese	520		0.64	0.093	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Nickel	22		0.64	0.19	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Potassium	2100		32	11	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Selenium	<0.64		0.64	0.38	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Silver	<0.32		0.32	0.082	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Sodium	610		64	9.4	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Thallium	<0.64		0.64	0.32	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Vanadium	33		0.32	0.075	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1
Zinc	76		1.3	0.56	mg/Kg	✱	11/09/20 18:58	11/10/20 10:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/09/20 17:32	11/10/20 16:40	1
Chromium	<0.025		0.025	0.010	mg/L		11/09/20 17:32	11/10/20 16:40	1
Iron	<0.40		0.40	0.20	mg/L		11/09/20 17:32	11/10/20 16:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/09/20 17:32	11/10/20 16:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190270-1

Client Sample ID: 3043V-26-B03

Lab Sample ID: 500-190270-5

Date Collected: 10/28/20 10:45

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 72.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.6		0.025	0.010	mg/L		11/09/20 17:32	11/10/20 16:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.036	J	0.050	0.010	mg/L		11/09/20 17:34	11/10/20 18:05	1
Barium	0.62		0.50	0.050	mg/L		11/09/20 17:34	11/10/20 18:05	1
Beryllium	0.0050		0.0040	0.0040	mg/L		11/09/20 17:34	11/10/20 18:05	1
Boron	0.095	J	0.10	0.050	mg/L		11/09/20 17:34	11/10/20 18:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/09/20 17:34	11/10/20 18:05	1
Calcium	23		2.5	0.50	mg/L		11/09/20 17:34	11/10/20 18:05	1
Chromium	0.15		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:05	1
Cobalt	0.051		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:05	1
Iron	160		0.40	0.20	mg/L		11/09/20 17:34	11/10/20 18:05	1
Lead	0.071		0.0075	0.0075	mg/L		11/09/20 17:34	11/10/20 18:05	1
Manganese	1.2		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:05	1
Nickel	0.099		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:05	1
Potassium	16		2.5	0.50	mg/L		11/09/20 17:34	11/10/20 18:05	1
Selenium	<0.050		0.050	0.020	mg/L		11/09/20 17:34	11/10/20 18:05	1
Silver	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:05	1
Zinc	0.38	J	0.50	0.020	mg/L		11/09/20 17:34	11/10/20 18:05	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		11/09/20 17:32	11/11/20 14:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/09/20 17:34	11/10/20 22:10	1
Thallium	0.0021		0.0020	0.0020	mg/L		11/09/20 17:34	11/10/20 22:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00043		0.00020	0.00020	mg/L		11/10/20 09:25	11/11/20 09:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.023	0.0075	mg/Kg	☆	11/09/20 13:35	11/10/20 07:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.41		0.41	0.20	mg/Kg	☆	11/11/20 10:03	11/11/20 13:14	1
pH	7.9		0.2	0.2	SU			11/03/20 22:14	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190270-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds 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 recovery exceeds control limits

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL.
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
B	Compound was found in the blank and sample.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Eurofins TestAmerica, Chicago

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190270-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190270-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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

CHAIN OF CUSTODY RECORD



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 3512 (US 14) Office Phone Number, if available: _____

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

508-515 Inner Circle Drive

City: Mount Prospect State: IL Zip Code: 60056

County: Cook Township: Elk Grove

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

Latitude: 42.05577 Longitude: - 87.92145

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

Approximate Start Date (mm/dd/yyyy): N/A Approximate End Date (mm/dd/yyyy): N/A

Estimated Volume of debris (cu. Yd.): 47

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil 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 3043V-28-B01, 3043V-28-B03 AND 3043V-28-B04 WERE SAMPLED ADJACENT TO SITE 3043V-28. SEE TABLE 3e AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-190193-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Dec 14, 2020

Date:



The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 3043V-28

Residences

Sample ID	3043V-28-B01	3043V-28-B03	3043V-28-B04-1	3043V-28-B04-2	3043V-28-B04-2 DUP	Maximum Allowable Concentration					
Sample Depth (ft)	0-2	0-2	0-6	6-12	6-12	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area	
Sample Date	10/27/2020	10/27/2020	10/27/2020	10/27/2020	10/27/2020						
PID	0	0	0	0	0						
Sample pH	8.1	8	8.6	8.4	8.3						
Matrix	Soil	Soil	Soil	Soil	Soil						
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)pyrene	ND	ND	0.078	ND	0.11	1,2	0.09	0.09	0.98	1.3	2.1

ANALYTICAL REPORT

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

Laboratory Job ID: 500-190193-1
Client Project/Site: IDOT - AE7-039

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
11/11/2020 6:25:47 PM

Jodie Bracken, Project Management Assistant II
Jodie.Bracken@Eurofinset.com

Designee for

Richard Wright, Senior Project Manager
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Richard.Wright@Eurofinset.com

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B01

Lab Sample ID: 500-190193-1

Date Collected: 10/27/20 10:50

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Acetone	<0.019		0.019	0.0084	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	10/28/20 17:23	10/29/20 14:10	1
4-Bromofluorobenzene (Surr)	103		75 - 131	10/28/20 17:23	10/29/20 14:10	1
Dibromofluoromethane	100		75 - 126	10/28/20 17:23	10/29/20 14:10	1
Toluene-d8 (Surr)	90		75 - 124	10/28/20 17:23	10/29/20 14:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B01

Lab Sample ID: 500-190193-1

Date Collected: 10/27/20 10:50

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☆	11/08/20 12:38	11/10/20 23:05	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B01

Lab Sample ID: 500-190193-1

Date Collected: 10/27/20 10:50

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	✱	11/08/20 12:38	11/10/20 23:05	1
Isophorone	<0.21		0.21	0.046	mg/Kg	✱	11/08/20 12:38	11/10/20 23:05	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	✱	11/08/20 12:38	11/10/20 23:05	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	✱	11/08/20 12:38	11/10/20 23:05	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.051	mg/Kg	✱	11/08/20 12:38	11/10/20 23:05	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	✱	11/08/20 12:38	11/10/20 23:05	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	✱	11/08/20 12:38	11/10/20 23:05	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	✱	11/08/20 12:38	11/10/20 23:05	1
Phenol	<0.21		0.21	0.092	mg/Kg	✱	11/08/20 12:38	11/10/20 23:05	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	✱	11/08/20 12:38	11/10/20 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		31 - 143	11/08/20 12:38	11/10/20 23:05	1
2-Fluorobiphenyl	75		43 - 145	11/08/20 12:38	11/10/20 23:05	1
2-Fluorophenol	77		31 - 166	11/08/20 12:38	11/10/20 23:05	1
Nitrobenzene-d5	74		37 - 147	11/08/20 12:38	11/10/20 23:05	1
Phenol-d5	68		30 - 153	11/08/20 12:38	11/10/20 23:05	1
Terphenyl-d14	96		42 - 157	11/08/20 12:38	11/10/20 23:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.69	J	1.2	0.24	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Arsenic	6.7		0.62	0.21	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Barium	110		0.62	0.071	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Beryllium	0.89		0.25	0.058	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Boron	6.5		3.1	0.29	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Cadmium	<0.12		0.12	0.022	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Calcium	4100	B	12	2.1	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Chromium	23		0.62	0.31	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Cobalt	12		0.31	0.081	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Copper	20		0.62	0.17	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Iron	25000		12	6.4	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Lead	14		0.31	0.14	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Magnesium	5600	B	6.2	3.1	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Manganese	390		0.62	0.090	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Nickel	35		0.62	0.18	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Potassium	1900		31	11	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Selenium	<0.62		0.62	0.36	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Silver	0.46		0.31	0.080	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Sodium	210		62	9.2	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Thallium	<0.62		0.62	0.31	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Vanadium	34		0.31	0.073	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1
Zinc	67		1.2	0.54	mg/Kg	✱	11/05/20 19:10	11/06/20 14:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		11/06/20 17:30	11/09/20 11:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/06/20 17:30	11/09/20 11:55	1
Manganese	0.12		0.025	0.010	mg/L		11/06/20 17:30	11/09/20 11:55	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B01

Lab Sample ID: 500-190193-1

Date Collected: 10/27/20 10:50

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.025	J	0.050	0.010	mg/L		11/06/20 17:32	11/09/20 17:22	1
Barium	0.25	J	0.50	0.050	mg/L		11/06/20 17:32	11/09/20 17:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/06/20 17:32	11/09/20 17:22	1
Boron	0.079	J	0.10	0.050	mg/L		11/06/20 17:32	11/09/20 17:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/06/20 17:32	11/09/20 17:22	1
Calcium	12		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:22	1
Chromium	0.065		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:22	1
Cobalt	0.011	J	0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:22	1
Iron	67		0.40	0.20	mg/L		11/06/20 17:32	11/09/20 17:22	1
Lead	0.016		0.0075	0.0075	mg/L		11/06/20 17:32	11/09/20 17:22	1
Manganese	0.25		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:22	1
Nickel	0.056		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:22	1
Potassium	10		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:22	1
Selenium	<0.050		0.050	0.020	mg/L		11/06/20 17:32	11/09/20 17:22	1
Silver	<0.025		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:22	1
Zinc	0.12	J	0.50	0.020	mg/L		11/06/20 17:32	11/09/20 17:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/06/20 17:32	11/11/20 00:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/06/20 17:32	11/11/20 00:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/09/20 09:15	11/10/20 08:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046	B	0.020	0.0068	mg/Kg	✱	11/05/20 13:30	11/06/20 07:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.14	J	0.28	0.14	mg/Kg	✱	11/10/20 13:14	11/10/20 16:15	1
pH	8.1		0.2	0.2	SU			11/03/20 19:26	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B04-1

Lab Sample ID: 500-190193-3

Date Collected: 10/27/20 11:00

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Acetone	<0.019		0.019	0.0081	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	☆	10/28/20 17:23	10/29/20 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	10/28/20 17:23	10/29/20 15:00	1
4-Bromofluorobenzene (Surr)	103		75 - 131	10/28/20 17:23	10/29/20 15:00	1
Dibromofluoromethane	101		75 - 126	10/28/20 17:23	10/29/20 15:00	1
Toluene-d8 (Surr)	90		75 - 124	10/28/20 17:23	10/29/20 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B04-1

Lab Sample ID: 500-190193-3

Date Collected: 10/27/20 11:00

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
4-Chloroaniline	<0.79		0.79	0.19	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Acenaphthylene	0.0067	J	0.039	0.0052	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Anthracene	0.0097	J	0.039	0.0066	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Benzo[a]anthracene	0.061		0.039	0.0053	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Benzo[a]pyrene	0.078		0.039	0.0076	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Benzo[b]fluoranthene	0.12		0.039	0.0085	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Benzo[g,h,i]perylene	0.085		0.039	0.013	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Benzo[k]fluoranthene	0.055		0.039	0.012	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Chrysene	0.079		0.039	0.011	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Dibenz(a,h)anthracene	0.016	J	0.039	0.0076	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Fluoranthene	0.13		0.039	0.0073	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B04-1

Lab Sample ID: 500-190193-3

Date Collected: 10/27/20 11:00

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.067		0.039	0.010	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Phenanthrene	0.062		0.039	0.0055	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Phenol	<0.20		0.20	0.088	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Pyrene	0.15		0.039	0.0078	mg/Kg	☆	11/08/20 12:38	11/10/20 23:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		31 - 143				11/08/20 12:38	11/10/20 23:27	1
2-Fluorobiphenyl	70		43 - 145				11/08/20 12:38	11/10/20 23:27	1
2-Fluorophenol	75		31 - 166				11/08/20 12:38	11/10/20 23:27	1
Nitrobenzene-d5	67		37 - 147				11/08/20 12:38	11/10/20 23:27	1
Phenol-d5	66		30 - 153				11/08/20 12:38	11/10/20 23:27	1
Terphenyl-d14	90		42 - 157				11/08/20 12:38	11/10/20 23:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.1	0.22	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Arsenic	4.7		0.56	0.19	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Barium	70		0.56	0.064	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Beryllium	0.64		0.22	0.052	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Boron	9.7		2.8	0.26	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Cadmium	0.10	J B	0.11	0.020	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Calcium	50000	B	110	19	mg/Kg	☆	11/05/20 19:10	11/09/20 09:16	10
Chromium	16		0.56	0.28	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Cobalt	11		0.28	0.073	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Copper	20		0.56	0.16	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Iron	16000		11	5.8	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Lead	20		0.28	0.13	mg/Kg	☆	11/05/20 19:10	11/09/20 09:12	1
Magnesium	20000	B	5.6	2.8	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Manganese	330		0.56	0.081	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Nickel	27		0.56	0.16	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Potassium	2100		28	9.9	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Selenium	0.36	J	0.56	0.33	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Silver	0.21	J	0.28	0.072	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Sodium	420		56	8.3	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Thallium	<0.56		0.56	0.28	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Vanadium	23		0.28	0.066	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1
Zinc	58		1.1	0.49	mg/Kg	☆	11/05/20 19:10	11/06/20 14:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		11/06/20 17:30	11/09/20 12:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/06/20 17:30	11/09/20 12:02	1
Manganese	0.032		0.025	0.010	mg/L		11/06/20 17:30	11/09/20 12:02	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B04-1

Lab Sample ID: 500-190193-3

Date Collected: 10/27/20 11:00

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.027	J	0.050	0.010	mg/L		11/06/20 17:32	11/09/20 17:35	1
Barium	0.33	J	0.50	0.050	mg/L		11/06/20 17:32	11/09/20 17:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/06/20 17:32	11/09/20 17:35	1
Boron	0.11		0.10	0.050	mg/L		11/06/20 17:32	11/09/20 17:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/06/20 17:32	11/09/20 17:35	1
Calcium	23		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:35	1
Chromium	0.084		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:35	1
Cobalt	0.031		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:35	1
Iron	82		0.40	0.20	mg/L		11/06/20 17:32	11/09/20 17:35	1
Lead	0.082		0.0075	0.0075	mg/L		11/06/20 17:32	11/09/20 17:35	1
Manganese	0.45		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:35	1
Nickel	0.092		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:35	1
Potassium	17		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:35	1
Selenium	<0.050		0.050	0.020	mg/L		11/06/20 17:32	11/09/20 17:35	1
Silver	<0.025		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:35	1
Zinc	0.21	J	0.50	0.020	mg/L		11/06/20 17:32	11/09/20 17:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/06/20 17:32	11/11/20 00:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/06/20 17:32	11/11/20 12:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/09/20 09:15	11/10/20 08:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040	B	0.018	0.0059	mg/Kg	⚠	11/05/20 13:30	11/06/20 07:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.23		0.23	0.11	mg/Kg	⚠	11/10/20 13:14	11/10/20 16:19	1
pH	8.6		0.2	0.2	SU			11/03/20 19:31	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B04-2

Lab Sample ID: 500-190193-4

Date Collected: 10/27/20 11:05

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Acetone	0.0090	J	0.017	0.0076	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☆	10/28/20 17:23	10/29/20 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	10/28/20 17:23	10/29/20 15:26	1
4-Bromofluorobenzene (Surr)	103		75 - 131	10/28/20 17:23	10/29/20 15:26	1
Dibromofluoromethane	99		75 - 126	10/28/20 17:23	10/29/20 15:26	1
Toluene-d8 (Surr)	90		75 - 124	10/28/20 17:23	10/29/20 15:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B04-2

Lab Sample ID: 500-190193-4

Date Collected: 10/27/20 11:05

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☆	11/08/20 12:38	11/10/20 23:50	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B04-2

Lab Sample ID: 500-190193-4

Date Collected: 10/27/20 11:05

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	✱	11/08/20 12:38	11/10/20 23:50	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✱	11/08/20 12:38	11/10/20 23:50	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	✱	11/08/20 12:38	11/10/20 23:50	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	✱	11/08/20 12:38	11/10/20 23:50	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	✱	11/08/20 12:38	11/10/20 23:50	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	✱	11/08/20 12:38	11/10/20 23:50	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	✱	11/08/20 12:38	11/10/20 23:50	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	✱	11/08/20 12:38	11/10/20 23:50	1
Phenol	<0.20		0.20	0.087	mg/Kg	✱	11/08/20 12:38	11/10/20 23:50	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	✱	11/08/20 12:38	11/10/20 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	82		31 - 143	11/08/20 12:38	11/10/20 23:50	1
2-Fluorobiphenyl	59		43 - 145	11/08/20 12:38	11/10/20 23:50	1
2-Fluorophenol	70		31 - 166	11/08/20 12:38	11/10/20 23:50	1
Nitrobenzene-d5	55		37 - 147	11/08/20 12:38	11/10/20 23:50	1
Phenol-d5	67		30 - 153	11/08/20 12:38	11/10/20 23:50	1
Terphenyl-d14	97		42 - 157	11/08/20 12:38	11/10/20 23:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.2	0.22	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Arsenic	6.7		0.58	0.20	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Barium	64		0.58	0.066	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Beryllium	0.69		0.23	0.054	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Boron	11		2.9	0.27	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Cadmium	0.068	J B	0.12	0.021	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Calcium	56000	B	120	20	mg/Kg	✱	11/05/20 19:10	11/09/20 09:22	10
Chromium	17		0.58	0.29	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Cobalt	12		0.29	0.076	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Copper	22		0.58	0.16	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Iron	19000		12	6.0	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Lead	14		0.29	0.13	mg/Kg	✱	11/05/20 19:10	11/09/20 09:19	1
Magnesium	22000	B	5.8	2.9	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Manganese	410		0.58	0.084	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Nickel	30		0.58	0.17	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Potassium	2400		29	10	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Selenium	<0.58		0.58	0.34	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Silver	0.26	J	0.29	0.074	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Sodium	590		58	8.5	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Thallium	<0.58		0.58	0.29	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Vanadium	23		0.29	0.068	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	1
Zinc	54		1.2	0.51	mg/Kg	✱	11/05/20 19:10	11/06/20 14:16	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		11/06/20 17:30	11/09/20 12:05	1
Chromium	<0.025		0.025	0.010	mg/L		11/06/20 17:30	11/09/20 12:05	1
Iron	<0.40		0.40	0.20	mg/L		11/06/20 17:30	11/09/20 12:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/06/20 17:30	11/09/20 12:05	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B04-2

Lab Sample ID: 500-190193-4

Date Collected: 10/27/20 11:05

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	5.8		0.025	0.010	mg/L		11/06/20 17:30	11/09/20 12:05	1
Nickel	<0.025		0.025	0.010	mg/L		11/06/20 17:30	11/09/20 12:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.038	J	0.050	0.010	mg/L		11/06/20 17:32	11/09/20 17:38	1
Barium	0.43	J	0.50	0.050	mg/L		11/06/20 17:32	11/09/20 17:38	1
Beryllium	0.0042		0.0040	0.0040	mg/L		11/06/20 17:32	11/09/20 17:38	1
Boron	0.14		0.10	0.050	mg/L		11/06/20 17:32	11/09/20 17:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/06/20 17:32	11/09/20 17:38	1
Calcium	34		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:38	1
Chromium	0.11		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:38	1
Cobalt	0.057		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:38	1
Iron	110		0.40	0.20	mg/L		11/06/20 17:32	11/09/20 17:38	1
Lead	0.063		0.0075	0.0075	mg/L		11/06/20 17:32	11/09/20 17:38	1
Manganese	1.5		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:38	1
Nickel	0.14		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:38	1
Potassium	21		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:38	1
Selenium	<0.050		0.050	0.020	mg/L		11/06/20 17:32	11/09/20 17:38	1
Silver	<0.025		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:38	1
Zinc	0.24	J	0.50	0.020	mg/L		11/06/20 17:32	11/09/20 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/06/20 17:32	11/11/20 00:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/06/20 17:32	11/11/20 00:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/09/20 09:15	11/10/20 08:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033	B	0.020	0.0066	mg/Kg	☼	11/05/20 13:30	11/06/20 07:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.13	J	0.24	0.12	mg/Kg	☼	11/10/20 13:14	11/10/20 16:21	1
pH	8.4		0.2	0.2	SU			11/03/20 19:33	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B04-2 Dup

Lab Sample ID: 500-190193-5

Date Collected: 10/27/20 11:10

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Acetone	0.016	J	0.020	0.0087	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☆	10/28/20 17:23	10/29/20 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	10/28/20 17:23	10/29/20 15:52	1
4-Bromofluorobenzene (Surr)	101		75 - 131	10/28/20 17:23	10/29/20 15:52	1
Dibromofluoromethane	100		75 - 126	10/28/20 17:23	10/29/20 15:52	1
Toluene-d8 (Surr)	90		75 - 124	10/28/20 17:23	10/29/20 15:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B04-2 Dup

Lab Sample ID: 500-190193-5

Date Collected: 10/27/20 11:10

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Acenaphthylene	0.021	J	0.040	0.0053	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Benzo[a]anthracene	0.060		0.040	0.0054	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Benzo[a]pyrene	0.11		0.040	0.0078	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Benzo[b]fluoranthene	0.13		0.040	0.0087	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Benzo[g,h,i]perylene	0.068		0.040	0.013	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Benzo[k]fluoranthene	0.038	J	0.040	0.012	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Chrysene	0.060		0.040	0.011	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Dibenz(a,h)anthracene	0.019	J	0.040	0.0078	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Fluoranthene	0.042		0.040	0.0075	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☆	11/08/20 12:38	11/11/20 00:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B04-2 Dup

Lab Sample ID: 500-190193-5

Date Collected: 10/27/20 11:10

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.060		0.040	0.010	mg/Kg	✱	11/08/20 12:38	11/11/20 00:12	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✱	11/08/20 12:38	11/11/20 00:12	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	✱	11/08/20 12:38	11/11/20 00:12	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	✱	11/08/20 12:38	11/11/20 00:12	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	✱	11/08/20 12:38	11/11/20 00:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	✱	11/08/20 12:38	11/11/20 00:12	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	✱	11/08/20 12:38	11/11/20 00:12	1
Phenanthrene	0.0091	J	0.040	0.0056	mg/Kg	✱	11/08/20 12:38	11/11/20 00:12	1
Phenol	<0.20		0.20	0.090	mg/Kg	✱	11/08/20 12:38	11/11/20 00:12	1
Pyrene	0.047		0.040	0.0080	mg/Kg	✱	11/08/20 12:38	11/11/20 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	54		31 - 143				11/08/20 12:38	11/11/20 00:12	1
2-Fluorobiphenyl	56		43 - 145				11/08/20 12:38	11/11/20 00:12	1
2-Fluorophenol	67		31 - 166				11/08/20 12:38	11/11/20 00:12	1
Nitrobenzene-d5	49		37 - 147				11/08/20 12:38	11/11/20 00:12	1
Phenol-d5	65		30 - 153				11/08/20 12:38	11/11/20 00:12	1
Terphenyl-d14	98		42 - 157				11/08/20 12:38	11/11/20 00:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Arsenic	5.4		0.62	0.21	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Barium	52		0.62	0.071	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Beryllium	0.51		0.25	0.058	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Boron	7.5		3.1	0.29	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Cadmium	0.048	J B	0.12	0.022	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Calcium	29000	B	12	2.1	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Chromium	13		0.62	0.31	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Cobalt	7.8		0.31	0.081	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Copper	16		0.62	0.17	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Iron	14000		12	6.5	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Lead	13		0.31	0.14	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Magnesium	17000	B	6.2	3.1	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Manganese	240		0.62	0.090	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Nickel	20		0.62	0.18	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Potassium	1500		31	11	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Selenium	<0.62		0.62	0.37	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Silver	0.15	J	0.31	0.080	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Sodium	420		62	9.2	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Thallium	<0.62		0.62	0.31	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Vanadium	18		0.31	0.073	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	1
Zinc	41		1.2	0.55	mg/Kg	✱	11/05/20 19:10	11/06/20 14:20	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		11/06/20 17:30	11/09/20 12:09	1
Chromium	<0.025		0.025	0.010	mg/L		11/06/20 17:30	11/09/20 12:09	1
Iron	<0.40		0.40	0.20	mg/L		11/06/20 17:30	11/09/20 12:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/06/20 17:30	11/09/20 12:09	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B04-2 Dup

Lab Sample ID: 500-190193-5

Date Collected: 10/27/20 11:10

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	4.1		0.025	0.010	mg/L		11/06/20 17:30	11/09/20 12:09	1
Nickel	<0.025		0.025	0.010	mg/L		11/06/20 17:30	11/09/20 12:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.034	J	0.050	0.010	mg/L		11/06/20 17:32	11/09/20 17:42	1
Barium	0.43	J	0.50	0.050	mg/L		11/06/20 17:32	11/09/20 17:42	1
Beryllium	0.0042		0.0040	0.0040	mg/L		11/06/20 17:32	11/09/20 17:42	1
Boron	0.15		0.10	0.050	mg/L		11/06/20 17:32	11/09/20 17:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/06/20 17:32	11/09/20 17:42	1
Calcium	27		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:42	1
Chromium	0.11		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:42	1
Cobalt	0.045		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:42	1
Iron	100		0.40	0.20	mg/L		11/06/20 17:32	11/09/20 17:42	1
Lead	0.075		0.0075	0.0075	mg/L		11/06/20 17:32	11/09/20 17:42	1
Manganese	0.92		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:42	1
Nickel	0.11		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:42	1
Potassium	20		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:42	1
Selenium	<0.050		0.050	0.020	mg/L		11/06/20 17:32	11/09/20 17:42	1
Silver	<0.025		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:42	1
Zinc	0.23	J	0.50	0.020	mg/L		11/06/20 17:32	11/09/20 17:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/06/20 17:32	11/11/20 00:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/06/20 17:32	11/11/20 12:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/09/20 09:15	11/10/20 08:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043	B	0.019	0.0064	mg/Kg	☼	11/05/20 13:30	11/06/20 07:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.30		0.30	0.15	mg/Kg	☼	11/10/20 13:14	11/10/20 16:22	1
pH	8.3		0.2	0.2	SU			11/03/20 19:36	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B03

Lab Sample ID: 500-190193-6

Date Collected: 10/27/20 11:25

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Acetone	<0.018		0.018	0.0078	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☆	10/28/20 17:23	10/29/20 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	10/28/20 17:23	10/29/20 16:17	1
4-Bromofluorobenzene (Surr)	100		75 - 131	10/28/20 17:23	10/29/20 16:17	1
Dibromofluoromethane	100		75 - 126	10/28/20 17:23	10/29/20 16:17	1
Toluene-d8 (Surr)	90		75 - 124	10/28/20 17:23	10/29/20 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B03

Lab Sample ID: 500-190193-6

Date Collected: 10/27/20 11:25

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Acenaphthene	0.019 J		0.041	0.0074	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☆	11/08/20 12:38	11/11/20 00:35	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B03

Lab Sample ID: 500-190193-6

Date Collected: 10/27/20 11:25

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	✱	11/08/20 12:38	11/11/20 00:35	1
Isophorone	<0.21		0.21	0.046	mg/Kg	✱	11/08/20 12:38	11/11/20 00:35	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	✱	11/08/20 12:38	11/11/20 00:35	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	✱	11/08/20 12:38	11/11/20 00:35	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.051	mg/Kg	✱	11/08/20 12:38	11/11/20 00:35	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	✱	11/08/20 12:38	11/11/20 00:35	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	✱	11/08/20 12:38	11/11/20 00:35	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	✱	11/08/20 12:38	11/11/20 00:35	1
Phenol	<0.21		0.21	0.092	mg/Kg	✱	11/08/20 12:38	11/11/20 00:35	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	✱	11/08/20 12:38	11/11/20 00:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	64		31 - 143	11/08/20 12:38	11/11/20 00:35	1
2-Fluorobiphenyl	57		43 - 145	11/08/20 12:38	11/11/20 00:35	1
2-Fluorophenol	70		31 - 166	11/08/20 12:38	11/11/20 00:35	1
Nitrobenzene-d5	59		37 - 147	11/08/20 12:38	11/11/20 00:35	1
Phenol-d5	62		30 - 153	11/08/20 12:38	11/11/20 00:35	1
Terphenyl-d14	88		42 - 157	11/08/20 12:38	11/11/20 00:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.2	0.23	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Arsenic	8.2		0.60	0.20	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Barium	87		0.60	0.068	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Beryllium	0.82		0.24	0.056	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Boron	5.0		3.0	0.28	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Cadmium	<0.12		0.12	0.021	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Calcium	3800	B	12	2.0	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Chromium	19		0.60	0.30	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Cobalt	13		0.30	0.078	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Copper	20		0.60	0.17	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Iron	22000		12	6.2	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Lead	17		0.30	0.14	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Magnesium	4500	B	6.0	3.0	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Manganese	490		0.60	0.086	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Nickel	34		0.60	0.17	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Potassium	1500		30	11	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Selenium	<0.60		0.60	0.35	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Silver	0.34		0.30	0.077	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Sodium	470		60	8.8	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Thallium	<0.60		0.60	0.30	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Vanadium	30		0.30	0.070	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1
Zinc	60		1.2	0.52	mg/Kg	✱	11/05/20 19:10	11/06/20 14:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/06/20 17:30	11/09/20 12:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/06/20 17:30	11/09/20 12:12	1
Chromium	<0.025		0.025	0.010	mg/L		11/06/20 17:30	11/09/20 12:12	1
Iron	<0.40		0.40	0.20	mg/L		11/06/20 17:30	11/09/20 12:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Client Sample ID: 3043V-28-B03

Lab Sample ID: 500-190193-6

Date Collected: 10/27/20 11:25

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		11/06/20 17:30	11/09/20 12:12	1
Manganese	0.24		0.025	0.010	mg/L		11/06/20 17:30	11/09/20 12:12	1
Nickel	<0.025		0.025	0.010	mg/L		11/06/20 17:30	11/09/20 12:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.052		0.050	0.010	mg/L		11/06/20 17:32	11/09/20 17:45	1
Barium	0.43	J	0.50	0.050	mg/L		11/06/20 17:32	11/09/20 17:45	1
Beryllium	0.0048		0.0040	0.0040	mg/L		11/06/20 17:32	11/09/20 17:45	1
Boron	0.093	J	0.10	0.050	mg/L		11/06/20 17:32	11/09/20 17:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/06/20 17:32	11/09/20 17:45	1
Calcium	15		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:45	1
Chromium	0.11		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:45	1
Cobalt	0.022	J	0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:45	1
Iron	130		0.40	0.20	mg/L		11/06/20 17:32	11/09/20 17:45	1
Lead	0.042		0.0075	0.0075	mg/L		11/06/20 17:32	11/09/20 17:45	1
Manganese	0.49		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:45	1
Nickel	0.11		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:45	1
Potassium	13		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:45	1
Selenium	<0.050		0.050	0.020	mg/L		11/06/20 17:32	11/09/20 17:45	1
Silver	<0.025		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:45	1
Zinc	0.27	J	0.50	0.020	mg/L		11/06/20 17:32	11/09/20 17:45	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		11/06/20 17:30	11/11/20 14:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/06/20 17:32	11/11/20 00:38	1
Thallium	0.0026		0.0020	0.0020	mg/L		11/06/20 17:32	11/11/20 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00050		0.00050	0.00050	mg/L		11/09/20 09:15	11/10/20 08:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046	B	0.019	0.0064	mg/Kg	✱	11/05/20 13:30	11/06/20 07:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.16	J	0.31	0.15	mg/Kg	✱	11/10/20 13:14	11/10/20 16:43	1
pH	8.0		0.2	0.2	SU			11/03/20 19:41	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

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.

General Chemistry

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190193-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 3512 (US 14) Office Phone Number, if available: _____

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

165-175 Inner Circle Drive

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Elk Grove

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

Latitude: 42.05521 Longitude: - 87.92144

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

Approximate Start Date (mm/dd/yyyy): N/A Approximate End Date (mm/dd/yyyy): N/A

Estimated Volume of debris (cu. Yd.): 25

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil 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 3043V-29-B01 WAS SAMPLED ADJACENT TO SITES 3043V-29 AND 3043V-30. SEE TABLE 3f AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-190194-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Dec 14, 2020

Date:



The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 3043V-29

Residence

Sample ID	3043V-29-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-2					
Sample Date	10/27/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0					
Sample pH	8.2					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-190194-1
Client Project/Site: IDOT - AE7-039

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
11/11/2020 6:27:21 PM

Jodie Bracken, Project Management Assistant II
Jodie.Bracken@Eurofinset.com

Designee for

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190194-1

Client Sample ID: 3043V-29-B01

Lab Sample ID: 500-190194-1

Date Collected: 10/27/20 11:30

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00069	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
1,1-Dichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
1,2-Dichloropropane	<0.0021		0.0021	0.00053	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00073	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Acetone	<0.021		0.021	0.0090	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Bromoform	<0.0021		0.0021	0.00060	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Chlorobenzene	<0.0021		0.0021	0.00076	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00062	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Dibromochloromethane	<0.0021		0.0021	0.00068	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Ethylbenzene	<0.0021		0.0021	0.00099	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Methylene Chloride	<0.0052		0.0052	0.0020	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Styrene	<0.0021		0.0021	0.00062	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Tetrachloroethene	0.0010	J	0.0021	0.00070	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00092	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00073	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Vinyl chloride	<0.0021		0.0021	0.00091	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1
Xylenes, Total	<0.0041		0.0041	0.00066	mg/Kg	☆	10/28/20 17:23	11/10/20 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	10/28/20 17:23	11/10/20 11:47	1
4-Bromofluorobenzene (Surr)	102		75 - 131	10/28/20 17:23	11/10/20 11:47	1
Dibromofluoromethane	100		75 - 126	10/28/20 17:23	11/10/20 11:47	1
Toluene-d8 (Surr)	90		75 - 124	10/28/20 17:23	11/10/20 11:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190194-1

Client Sample ID: 3043V-29-B01

Lab Sample ID: 500-190194-1

Date Collected: 10/27/20 11:30

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
2-Methylnaphthalene	<0.084		0.084	0.0077	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
2-Nitrophenol	<0.41		0.41	0.099	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Anthracene	0.013	J	0.041	0.0070	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Benzo[a]anthracene	0.11		0.041	0.0056	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Benzo[a]pyrene	0.084		0.041	0.0081	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Benzo[b]fluoranthene	0.13		0.041	0.0090	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Benzo[g,h,i]perylene	0.057		0.041	0.013	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Benzo[k]fluoranthene	0.043		0.041	0.012	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Chrysene	0.13		0.041	0.011	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Dibenz(a,h)anthracene	0.031	J	0.041	0.0081	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Fluoranthene	0.24		0.041	0.0077	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☆	11/04/20 07:21	11/06/20 00:31	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190194-1

Client Sample ID: 3043V-29-B01

Lab Sample ID: 500-190194-1

Date Collected: 10/27/20 11:30

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.029	J	0.041	0.011	mg/Kg	✱	11/04/20 07:21	11/06/20 00:31	1
Isophorone	<0.21		0.21	0.047	mg/Kg	✱	11/04/20 07:21	11/06/20 00:31	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	✱	11/04/20 07:21	11/06/20 00:31	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	✱	11/04/20 07:21	11/06/20 00:31	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	✱	11/04/20 07:21	11/06/20 00:31	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	✱	11/04/20 07:21	11/06/20 00:31	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	✱	11/04/20 07:21	11/06/20 00:31	1
Phenanthrene	0.078		0.041	0.0058	mg/Kg	✱	11/04/20 07:21	11/06/20 00:31	1
Phenol	<0.21		0.21	0.093	mg/Kg	✱	11/04/20 07:21	11/06/20 00:31	1
Pyrene	0.22		0.041	0.0083	mg/Kg	✱	11/04/20 07:21	11/06/20 00:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	41		31 - 143				11/04/20 07:21	11/06/20 00:31	1
2-Fluorobiphenyl	67		43 - 145				11/04/20 07:21	11/06/20 00:31	1
2-Fluorophenol	84		31 - 166				11/04/20 07:21	11/06/20 00:31	1
Nitrobenzene-d5	70		37 - 147				11/04/20 07:21	11/06/20 00:31	1
Phenol-d5	75		30 - 153				11/04/20 07:21	11/06/20 00:31	1
Terphenyl-d14	118		42 - 157				11/04/20 07:21	11/06/20 00:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J	1.2	0.23	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Arsenic	6.3		0.59	0.20	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Barium	83		0.59	0.067	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Beryllium	0.67		0.24	0.055	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Boron	8.8		3.0	0.27	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Cadmium	0.11	J B	0.12	0.021	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Calcium	8200	B	12	2.0	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Chromium	17		0.59	0.29	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Cobalt	9.1		0.30	0.077	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Copper	19		0.59	0.17	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Iron	18000		12	6.1	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Lead	17		0.30	0.14	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Magnesium	6000	B	5.9	2.9	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Manganese	330		0.59	0.086	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Nickel	23		0.59	0.17	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Potassium	1900		30	10	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Selenium	0.52	J	0.59	0.35	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Silver	0.29	J	0.30	0.076	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Sodium	500		59	8.7	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Thallium	<0.59		0.59	0.29	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Vanadium	25		0.30	0.070	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1
Zinc	62		1.2	0.52	mg/Kg	✱	11/05/20 19:10	11/06/20 14:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		11/06/20 17:30	11/09/20 12:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/06/20 17:30	11/09/20 12:15	1
Manganese	0.31		0.025	0.010	mg/L		11/06/20 17:30	11/09/20 12:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190194-1

Client Sample ID: 3043V-29-B01

Lab Sample ID: 500-190194-1

Date Collected: 10/27/20 11:30

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.031	J	0.050	0.010	mg/L		11/06/20 17:32	11/09/20 17:48	1
Barium	0.40	J	0.50	0.050	mg/L		11/06/20 17:32	11/09/20 17:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/06/20 17:32	11/09/20 17:48	1
Boron	0.10		0.10	0.050	mg/L		11/06/20 17:32	11/09/20 17:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/06/20 17:32	11/09/20 17:48	1
Calcium	18		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:48	1
Chromium	0.099		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:48	1
Cobalt	0.023	J	0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:48	1
Iron	100		0.40	0.20	mg/L		11/06/20 17:32	11/09/20 17:48	1
Lead	0.048		0.0075	0.0075	mg/L		11/06/20 17:32	11/09/20 17:48	1
Manganese	0.53		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:48	1
Nickel	0.083		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:48	1
Potassium	15		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:48	1
Selenium	<0.050		0.050	0.020	mg/L		11/06/20 17:32	11/09/20 17:48	1
Silver	<0.025		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:48	1
Zinc	0.29	J	0.50	0.020	mg/L		11/06/20 17:32	11/09/20 17:48	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		11/06/20 17:30	11/11/20 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/06/20 17:32	11/11/20 00:41	1
Thallium	0.0021		0.0020	0.0020	mg/L		11/06/20 17:32	11/11/20 12:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/09/20 09:15	11/10/20 09:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.020	0.0067	mg/Kg	✱	11/02/20 13:25	11/03/20 08:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.21	J	0.31	0.15	mg/Kg	✱	11/10/20 13:14	11/10/20 16:45	1
pH	8.2		0.2	0.2	SU			11/03/20 18:46	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190194-1

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.

General Chemistry

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190194-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 3512 (US 14) Office Phone Number, if available: _____

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

165 South Mt. Prospect Road

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.05506 Longitude: - 87.92113

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

Approximate Start Date (mm/dd/yyyy): N/A Approximate End Date (mm/dd/yyyy): N/A

Estimated Volume of debris (cu. Yd.): 5

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil 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 3043V-53-B01 WAS SAMPLED ADJACENT TO SITE 3043V-53. SEE TABLE 3g AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-190189-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Dec 14, 2020

Date:



The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 3043V-53

Residence

Sample ID	3043V-53-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-2					
Sample Date	10/27/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0					
Sample pH	8.2					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-190189-1
Client Project/Site: IDOT - AE7-039

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
11/11/2020 6:16:44 PM

Jodie Bracken, Project Management Assistant II
Jodie.Bracken@Eurofinset.com

Designee for

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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results through

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190189-1

Client Sample ID: 3043V-53-B01

Lab Sample ID: 500-190189-1

Date Collected: 10/27/20 10:00

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Acetone	<0.018		0.018	0.0080	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Toluene	<0.0018		0.0018	0.00047	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☆	10/28/20 17:23	10/29/20 11:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	10/28/20 17:23	10/29/20 11:11	1
4-Bromofluorobenzene (Surr)	108		75 - 131	10/28/20 17:23	10/29/20 11:11	1
Dibromofluoromethane	96		75 - 126	10/28/20 17:23	10/29/20 11:11	1
Toluene-d8 (Surr)	91		75 - 124	10/28/20 17:23	10/29/20 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190189-1

Client Sample ID: 3043V-53-B01

Lab Sample ID: 500-190189-1

Date Collected: 10/27/20 10:00

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.088	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Benzo[a]anthracene	0.013	J	0.039	0.0052	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Benzo[a]pyrene	0.023	J	0.039	0.0075	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Benzo[b]fluoranthene	0.037	J	0.039	0.0084	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Benzo[g,h,i]perylene	0.019	J	0.039	0.012	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Benzo[k]fluoranthene	0.011	J	0.039	0.011	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Chrysene	0.030	J	0.039	0.011	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Fluoranthene	0.035	J	0.039	0.0072	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Fluorene	<0.039		0.039	0.0054	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190189-1

Client Sample ID: 3043V-53-B01

Lab Sample ID: 500-190189-1

Date Collected: 10/27/20 10:00

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.014	J	0.039	0.010	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Isophorone	<0.19		0.19	0.044	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Phenanthrene	0.020	J	0.039	0.0054	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Phenol	<0.19		0.19	0.086	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Pyrene	0.043		0.039	0.0077	mg/Kg	☆	11/03/20 16:02	11/05/20 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		31 - 143				11/03/20 16:02	11/05/20 19:29	1
2-Fluorobiphenyl	76		43 - 145				11/03/20 16:02	11/05/20 19:29	1
2-Fluorophenol	82		31 - 166				11/03/20 16:02	11/05/20 19:29	1
Nitrobenzene-d5	65		37 - 147				11/03/20 16:02	11/05/20 19:29	1
Phenol-d5	76		30 - 153				11/03/20 16:02	11/05/20 19:29	1
Terphenyl-d14	83		42 - 157				11/03/20 16:02	11/05/20 19:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.2	0.23	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Arsenic	8.0		0.58	0.20	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Barium	65		0.58	0.066	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Beryllium	0.90		0.23	0.054	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Boron	14		2.9	0.27	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Calcium	54000	B	120	20	mg/Kg	☆	11/05/20 19:06	11/06/20 09:15	10
Chromium	18		0.58	0.29	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Cobalt	13		0.29	0.076	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Copper	23		0.58	0.16	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Iron	22000		12	6.0	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Lead	18		0.29	0.13	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Magnesium	23000		5.8	2.9	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Manganese	490		0.58	0.084	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Nickel	32		0.58	0.17	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Potassium	3100		29	10	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Selenium	<0.58		0.58	0.34	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Silver	<0.29		0.29	0.075	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Sodium	130		58	8.6	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Thallium	0.32	J	0.58	0.29	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Vanadium	26		0.29	0.068	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1
Zinc	62		1.2	0.51	mg/Kg	☆	11/05/20 19:06	11/06/20 08:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		11/05/20 17:06	11/06/20 11:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/05/20 17:06	11/06/20 11:54	1
Manganese	0.15		0.025	0.010	mg/L		11/05/20 17:06	11/06/20 11:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190189-1

Client Sample ID: 3043V-53-B01

Lab Sample ID: 500-190189-1

Date Collected: 10/27/20 10:00

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.024	J	0.050	0.010	mg/L		11/06/20 17:32	11/09/20 17:00	1
Barium	0.20	J	0.50	0.050	mg/L		11/06/20 17:32	11/09/20 17:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/06/20 17:32	11/09/20 17:00	1
Boron	0.092	J	0.10	0.050	mg/L		11/06/20 17:32	11/09/20 17:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/06/20 17:32	11/09/20 17:00	1
Calcium	19		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:00	1
Chromium	0.062		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:00	1
Cobalt	0.016	J	0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:00	1
Iron	61		0.40	0.20	mg/L		11/06/20 17:32	11/09/20 17:00	1
Lead	0.030		0.0075	0.0075	mg/L		11/06/20 17:32	11/09/20 17:00	1
Manganese	0.22		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:00	1
Nickel	0.061		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:00	1
Potassium	15		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:00	1
Selenium	<0.050		0.050	0.020	mg/L		11/06/20 17:32	11/09/20 17:00	1
Silver	<0.025		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:00	1
Zinc	0.15	J	0.50	0.020	mg/L		11/06/20 17:32	11/09/20 17:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/06/20 17:32	11/10/20 23:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/06/20 17:32	11/11/20 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/09/20 09:15	11/10/20 08:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0059	mg/Kg	✱	11/02/20 13:25	11/03/20 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28		0.28	0.14	mg/Kg	✱	11/10/20 13:14	11/10/20 15:56	1
pH	8.2		0.2	0.2	SU			11/03/20 18:51	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190189-1

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190189-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 3512 (US 14) Office Phone Number, if available: _____

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

175 South Mount Prospect Road

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.05531 Longitude: - 87.92112

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

Approximate Start Date (mm/dd/yyyy): N/A Approximate End Date (mm/dd/yyyy): N/A

Estimated Volume of debris (cu. Yd.): 65

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil 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 3043V-54-B01 WAS SAMPLED ADJACENT TO SITE 3043V-54. SEE TABLE 3h AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-190190-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Dec 14, 2020

Date:



The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 3043V-54

Residence

Sample ID	3043V-54-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-2					
Sample Date	10/27/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0					
Sample pH	8.3					
Matrix	Soil					
No Contaminants of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-190190-1
Client Project/Site: IDOT - AE7-039

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
11/11/2020 6:18:45 PM

Jodie Bracken, Project Management Assistant II
Jodie.Bracken@Eurofinset.com

Designee for

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190190-1

Client Sample ID: 3043V-54-B01

Lab Sample ID: 500-190190-1

Date Collected: 10/27/20 10:05

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Acetone	<0.018		0.018	0.0079	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☆	10/28/20 17:23	10/29/20 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	10/28/20 17:23	10/29/20 11:37	1
4-Bromofluorobenzene (Surr)	105		75 - 131	10/28/20 17:23	10/29/20 11:37	1
Dibromofluoromethane	98		75 - 126	10/28/20 17:23	10/29/20 11:37	1
Toluene-d8 (Surr)	92		75 - 124	10/28/20 17:23	10/29/20 11:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190190-1

Client Sample ID: 3043V-54-B01

Lab Sample ID: 500-190190-1

Date Collected: 10/27/20 10:05

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
4-Chloroaniline	<0.79		0.79	0.19	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Benzo[a]anthracene	0.027 J		0.039	0.0053	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Benzo[a]pyrene	0.037 J		0.039	0.0076	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Benzo[b]fluoranthene	0.047		0.039	0.0085	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Benzo[g,h,i]perylene	0.030 J		0.039	0.013	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Benzo[k]fluoranthene	0.020 J		0.039	0.012	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Chrysene	0.036 J		0.039	0.011	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Fluoranthene	0.050		0.039	0.0073	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190190-1

Client Sample ID: 3043V-54-B01

Lab Sample ID: 500-190190-1

Date Collected: 10/27/20 10:05

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.022	J	0.039	0.010	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Phenanthrene	0.020	J	0.039	0.0055	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Phenol	<0.20		0.20	0.088	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Pyrene	0.050		0.039	0.0078	mg/Kg	☆	11/03/20 16:02	11/05/20 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	53		31 - 143				11/03/20 16:02	11/05/20 20:36	1
2-Fluorobiphenyl	81		43 - 145				11/03/20 16:02	11/05/20 20:36	1
2-Fluorophenol	80		31 - 166				11/03/20 16:02	11/05/20 20:36	1
Nitrobenzene-d5	78		37 - 147				11/03/20 16:02	11/05/20 20:36	1
Phenol-d5	74		30 - 153				11/03/20 16:02	11/05/20 20:36	1
Terphenyl-d14	92		42 - 157				11/03/20 16:02	11/05/20 20:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.1	0.22	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Arsenic	7.4		0.56	0.19	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Barium	49		0.56	0.064	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Beryllium	0.51		0.22	0.052	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Boron	6.7		2.8	0.26	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Cadmium	0.094	J B	0.11	0.020	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Calcium	64000	B	110	19	mg/Kg	☆	11/05/20 19:10	11/09/20 08:44	10
Chromium	12		0.56	0.28	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Cobalt	8.3		0.28	0.073	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Copper	19		0.56	0.16	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Iron	15000		11	5.8	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Lead	57		0.28	0.13	mg/Kg	☆	11/05/20 19:10	11/09/20 08:41	1
Magnesium	27000	B	5.6	2.8	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Manganese	300		0.56	0.081	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Nickel	21		0.56	0.16	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Potassium	1200		28	9.9	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Selenium	<0.56		0.56	0.33	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Silver	0.16	J	0.28	0.072	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Sodium	120		56	8.3	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Thallium	<0.56		0.56	0.28	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Vanadium	20		0.28	0.066	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1
Zinc	57		1.1	0.49	mg/Kg	☆	11/05/20 19:10	11/06/20 13:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		11/05/20 17:06	11/06/20 11:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/05/20 17:06	11/06/20 11:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190190-1

Client Sample ID: 3043V-54-B01

Lab Sample ID: 500-190190-1

Date Collected: 10/27/20 10:05

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/06/20 17:32	11/09/20 17:04	1
Barium	0.077	J	0.50	0.050	mg/L		11/06/20 17:32	11/09/20 17:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/06/20 17:32	11/09/20 17:04	1
Boron	<0.10		0.10	0.050	mg/L		11/06/20 17:32	11/09/20 17:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/06/20 17:32	11/09/20 17:04	1
Calcium	12		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:04	1
Chromium	0.023	J	0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:04	1
Cobalt	<0.025		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:04	1
Iron	21		0.40	0.20	mg/L		11/06/20 17:32	11/09/20 17:04	1
Lead	0.023		0.0075	0.0075	mg/L		11/06/20 17:32	11/09/20 17:04	1
Manganese	0.081		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:04	1
Nickel	0.017	J	0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:04	1
Potassium	5.2		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:04	1
Selenium	<0.050		0.050	0.020	mg/L		11/06/20 17:32	11/09/20 17:04	1
Silver	<0.025		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:04	1
Zinc	0.056	J	0.50	0.020	mg/L		11/06/20 17:32	11/09/20 17:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/06/20 17:32	11/10/20 23:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/06/20 17:32	11/10/20 23:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/09/20 09:15	11/10/20 08:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0063	mg/Kg	⚠	11/02/20 13:25	11/03/20 08:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.12	J	0.23	0.11	mg/Kg	⚠	11/10/20 13:14	11/10/20 16:01	1
pH	8.3		0.2	0.2	SU			11/03/20 18:41	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190190-1

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.

General Chemistry

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190190-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 3512 Office Phone Number, if available: _____

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

233 North Warrington Road

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.05588 Longitude: - 87.92115

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

Approximate Start Date (mm/dd/yyyy): N/A Approximate End Date (mm/dd/yyyy): N/A

Estimated Volume of debris (cu. Yd.): 125

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil 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 3043V-55-B01 AND 3043V-55-B02 WERE SAMPLED ADJACENT TO SITE 3043V-55. SEE TABLE 3i AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-190191-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Dec 14, 2020

Date:



The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 3043V-55

Residence

Sample ID	3043V-55-B01		3043V-55-B02		Maximum Allowable Concentration				
Sample Depth (ft)	0-2		0-4		¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
Sample Date	10/27/2020		10/27/2020						
PID	0		0						
Sample pH	8.4		8.2						
Matrix	Soil		Soil						
Semivolatile Organic Compounds (mg/kg)									
Benzo(a)pyrene	J 0.015		0.12	1.2	0.09	0.09	0.98	1.3	2.1

ANALYTICAL REPORT

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

Laboratory Job ID: 500-190191-1
Client Project/Site: IDOT - AE7-039

For:

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

Attn: Ms. Colleen Grey

Jodie Bracken

Authorized for release by:
11/11/2020 6:21:51 PM

Jodie Bracken, Project Management Assistant II
Jodie.Bracken@Eurofinset.com

Designee for

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190191-1

Client Sample ID: 3043V-55-B01

Lab Sample ID: 500-190191-1

Date Collected: 10/27/20 10:10

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Acetone	<0.018		0.018	0.0079	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☆	10/28/20 17:23	10/29/20 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	10/28/20 17:23	10/29/20 12:02	1
4-Bromofluorobenzene (Surr)	105		75 - 131	10/28/20 17:23	10/29/20 12:02	1
Dibromofluoromethane	100		75 - 126	10/28/20 17:23	10/29/20 12:02	1
Toluene-d8 (Surr)	90		75 - 124	10/28/20 17:23	10/29/20 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
1,3-Dichlorobenzene	<0.20	F1	0.20	0.044	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
1,4-Dichlorobenzene	<0.20	F1	0.20	0.050	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
2,2'-oxybis[1-chloropropane]	<0.20	F1	0.20	0.045	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190191-1

Client Sample ID: 3043V-55-B01

Lab Sample ID: 500-190191-1

Date Collected: 10/27/20 10:10

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
2-Methylphenol	<0.20	F1	0.20	0.062	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Benzo[a]anthracene	0.013	J	0.039	0.0052	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Benzo[a]pyrene	0.015	J	0.039	0.0075	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Benzo[b]fluoranthene	0.021	J	0.039	0.0084	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Benzo[g,h,i]perylene	0.014	J	0.039	0.012	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Bis(2-ethylhexyl) phthalate	<0.20	F1	0.20	0.071	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Chrysene	0.020	J	0.039	0.011	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Di-n-octyl phthalate	<0.20	F1	0.20	0.063	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Fluoranthene	0.020	J F1 F2	0.039	0.0072	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Hexachloroethane	<0.20	F1	0.20	0.059	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190191-1

Client Sample ID: 3043V-55-B01

Lab Sample ID: 500-190191-1

Date Collected: 10/27/20 10:10

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.011	J	0.039	0.010	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Pentachlorophenol	<0.78	F2	0.78	0.62	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Phenanthrene	0.013	J	0.039	0.0054	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Phenol	<0.20		0.20	0.086	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Pyrene	0.018	J	0.039	0.0077	mg/Kg	☆	11/04/20 20:53	11/09/20 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	98		31 - 143				11/04/20 20:53	11/09/20 14:26	1
2-Fluorobiphenyl	74		43 - 145				11/04/20 20:53	11/09/20 14:26	1
2-Fluorophenol	80		31 - 166				11/04/20 20:53	11/09/20 14:26	1
Nitrobenzene-d5	69		37 - 147				11/04/20 20:53	11/09/20 14:26	1
Phenol-d5	73		30 - 153				11/04/20 20:53	11/09/20 14:26	1
Terphenyl-d14	67		42 - 157				11/04/20 20:53	11/09/20 14:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.66	J	1.1	0.22	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Arsenic	7.5		0.56	0.19	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Barium	56		0.56	0.063	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Beryllium	0.84		0.22	0.052	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Boron	14		2.8	0.26	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Calcium	68000	B	110	19	mg/Kg	☆	11/05/20 19:06	11/06/20 09:18	10
Chromium	17		0.56	0.28	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Cobalt	13		0.28	0.073	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Copper	23		0.56	0.16	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Iron	21000		11	5.8	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Lead	19		0.28	0.13	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Magnesium	28000		5.6	2.8	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Manganese	460		0.56	0.081	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Nickel	32		0.56	0.16	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Potassium	3100		28	9.9	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Selenium	<0.56		0.56	0.33	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Silver	<0.28		0.28	0.072	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Sodium	160		56	8.2	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Thallium	<0.56		0.56	0.28	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Vanadium	22		0.28	0.066	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1
Zinc	55		1.1	0.49	mg/Kg	☆	11/05/20 19:06	11/06/20 08:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		11/05/20 17:06	11/06/20 12:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/05/20 17:06	11/06/20 12:01	1
Manganese	0.32		0.025	0.010	mg/L		11/05/20 17:06	11/06/20 12:01	1
Nickel	<0.025		0.025	0.010	mg/L		11/05/20 17:06	11/06/20 12:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190191-1

Client Sample ID: 3043V-55-B01

Lab Sample ID: 500-190191-1

Date Collected: 10/27/20 10:10

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/05/20 17:06	11/06/20 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.043	J	0.050	0.010	mg/L		11/06/20 17:32	11/09/20 17:07	1
Barium	0.33	J	0.50	0.050	mg/L		11/06/20 17:32	11/09/20 17:07	1
Beryllium	0.0042		0.0040	0.0040	mg/L		11/06/20 17:32	11/09/20 17:07	1
Boron	0.14		0.10	0.050	mg/L		11/06/20 17:32	11/09/20 17:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/06/20 17:32	11/09/20 17:07	1
Calcium	39		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:07	1
Chromium	0.10		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:07	1
Cobalt	0.031		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:07	1
Iron	100		0.40	0.20	mg/L		11/06/20 17:32	11/09/20 17:07	1
Lead	0.061		0.0075	0.0075	mg/L		11/06/20 17:32	11/09/20 17:07	1
Manganese	0.41		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:07	1
Nickel	0.12		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:07	1
Potassium	24		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:07	1
Selenium	<0.050		0.050	0.020	mg/L		11/06/20 17:32	11/09/20 17:07	1
Silver	<0.025		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:07	1
Zinc	0.25	J	0.50	0.020	mg/L		11/06/20 17:32	11/09/20 17:07	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		11/05/20 17:06	11/11/20 13:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/06/20 17:32	11/10/20 23:53	1
Thallium	0.0021		0.0020	0.0020	mg/L		11/06/20 17:32	11/11/20 12:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/09/20 09:15	11/10/20 08:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.0062	mg/Kg	☆	11/02/20 13:25	11/03/20 07:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.23		0.23	0.12	mg/Kg	☆	11/10/20 13:14	11/10/20 16:03	1
pH	8.4		0.2	0.2	SU			11/03/20 19:01	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190191-1

Client Sample ID: 3043V-55-B02

Lab Sample ID: 500-190191-2

Date Collected: 10/27/20 10:15

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Acetone	<0.019		0.019	0.0084	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1
Xylenes, Total	<0.0038		0.0038	0.00062	mg/Kg	☆	10/28/20 17:23	10/29/20 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	10/28/20 17:23	10/29/20 12:28	1
4-Bromofluorobenzene (Surr)	103		75 - 131	10/28/20 17:23	10/29/20 12:28	1
Dibromofluoromethane	100		75 - 126	10/28/20 17:23	10/29/20 12:28	1
Toluene-d8 (Surr)	91		75 - 124	10/28/20 17:23	10/29/20 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190191-1

Client Sample ID: 3043V-55-B02

Lab Sample ID: 500-190191-2

Date Collected: 10/27/20 10:15

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
2-Methylnaphthalene	0.0079	J	0.080	0.0073	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Acenaphthylene	0.0089	J	0.039	0.0052	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Anthracene	0.014	J	0.039	0.0066	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Benzo[a]anthracene	0.098		0.039	0.0053	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Benzo[a]pyrene	0.12		0.039	0.0077	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Benzo[b]fluoranthene	0.15		0.039	0.0085	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Benzo[g,h,i]perylene	0.11		0.039	0.013	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Benzo[k]fluoranthene	0.10		0.039	0.012	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Chrysene	0.14		0.039	0.011	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Dibenz(a,h)anthracene	0.025	J	0.039	0.0077	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Fluoranthene	0.23		0.039	0.0073	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190191-1

Client Sample ID: 3043V-55-B02

Lab Sample ID: 500-190191-2

Date Collected: 10/27/20 10:15

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.088		0.039	0.010	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Phenanthrene	0.10		0.039	0.0055	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Phenol	<0.20		0.20	0.088	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Pyrene	0.31		0.039	0.0079	mg/Kg	☆	11/04/20 20:53	11/09/20 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	94		31 - 143				11/04/20 20:53	11/09/20 14:48	1
2-Fluorobiphenyl	79		43 - 145				11/04/20 20:53	11/09/20 14:48	1
2-Fluorophenol	79		31 - 166				11/04/20 20:53	11/09/20 14:48	1
Nitrobenzene-d5	84		37 - 147				11/04/20 20:53	11/09/20 14:48	1
Phenol-d5	80		30 - 153				11/04/20 20:53	11/09/20 14:48	1
Terphenyl-d14	147		42 - 157				11/04/20 20:53	11/09/20 14:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.1	0.22	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Arsenic	6.2		0.57	0.20	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Barium	72		0.57	0.066	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Beryllium	0.79		0.23	0.054	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Boron	11		2.9	0.27	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Cadmium	0.042	J B	0.11	0.021	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Calcium	31000	B	11	1.9	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Chromium	16		0.57	0.28	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Cobalt	11		0.29	0.075	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Copper	21		0.57	0.16	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Iron	19000		11	6.0	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Lead	17		0.29	0.13	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Magnesium	18000		5.7	2.9	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Manganese	440		0.57	0.083	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Nickel	27		0.57	0.17	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Potassium	2300		29	10	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Selenium	<0.57		0.57	0.34	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Silver	<0.29		0.29	0.074	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Sodium	160		57	8.5	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Thallium	<0.57		0.57	0.29	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Vanadium	23		0.29	0.068	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1
Zinc	59		1.1	0.50	mg/Kg	☆	11/05/20 19:06	11/06/20 09:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		11/05/20 17:06	11/06/20 12:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/05/20 17:06	11/06/20 12:04	1
Manganese	0.11		0.025	0.010	mg/L		11/05/20 17:06	11/06/20 12:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190191-1

Client Sample ID: 3043V-55-B02

Lab Sample ID: 500-190191-2

Date Collected: 10/27/20 10:15

Matrix: Solid

Date Received: 10/28/20 11:45

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.018	J	0.050	0.010	mg/L		11/06/20 17:32	11/09/20 17:10	1
Barium	0.18	J	0.50	0.050	mg/L		11/06/20 17:32	11/09/20 17:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/06/20 17:32	11/09/20 17:10	1
Boron	0.089	J	0.10	0.050	mg/L		11/06/20 17:32	11/09/20 17:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/06/20 17:32	11/09/20 17:10	1
Calcium	23		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:10	1
Chromium	0.049		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:10	1
Cobalt	0.012	J	0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:10	1
Iron	46		0.40	0.20	mg/L		11/06/20 17:32	11/09/20 17:10	1
Lead	0.023		0.0075	0.0075	mg/L		11/06/20 17:32	11/09/20 17:10	1
Manganese	0.22		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:10	1
Nickel	0.043		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:10	1
Potassium	12		2.5	0.50	mg/L		11/06/20 17:32	11/09/20 17:10	1
Selenium	<0.050		0.050	0.020	mg/L		11/06/20 17:32	11/09/20 17:10	1
Silver	<0.025		0.025	0.010	mg/L		11/06/20 17:32	11/09/20 17:10	1
Zinc	0.12	J	0.50	0.020	mg/L		11/06/20 17:32	11/09/20 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/06/20 17:32	11/10/20 23:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/06/20 17:32	11/10/20 23:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/09/20 09:15	11/10/20 08:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0061	mg/Kg	✱	11/02/20 13:25	11/03/20 07:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.27	0.13	mg/Kg	✱	11/10/20 13:14	11/10/20 16:05	1
pH	8.2		0.2	0.2	SU			11/03/20 19:03	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190191-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190191-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 3512 (US 14) Office Phone Number, if available: _____

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

58 East Northwest Highway

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.05598 Longitude: - 87.91964

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

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

IEPA Site Number(s), if assigned: BOL: 0310630040 BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): N/A Approximate End Date (mm/dd/yyyy): N/A

Estimated Volume of debris (cu. Yd.): 554

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil 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 3043V-57-B01 AND 3043V-57-B02 WERE SAMPLED ADJACENT TO SITE 3043V-57. SEE TABLE 3j AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-190269-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Dec 14, 2020

Date:



The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 3043V-57
American Midwest Bank

Sample ID	3043V-57-B01	3043V-57-B02	Maximum Allowable Concentration				
Sample Depth (ft)	0-7	0-6					
Sample Date	10/28/2020	10/28/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0	0					
Sample pH	7.5	8.2					
Matrix	Soil	Soil					
No Contaminats of Concern Noted.							

ANALYTICAL REPORT

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

Laboratory Job ID: 500-190269-1
Client Project/Site: IDOT - AE7-039

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
11/13/2020 9:11:46 AM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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results through
TotalAccess

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190269-1

Client Sample ID: 3043V-57-B01

Lab Sample ID: 500-190269-1

Date Collected: 10/28/20 10:50

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Acetone	<0.017		0.017	0.0075	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Carbon tetrachloride	<0.0017 *		0.0017	0.00050	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☆	10/29/20 17:29	11/04/20 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	10/29/20 17:29	11/04/20 13:49	1
4-Bromofluorobenzene (Surr)	102		75 - 131	10/29/20 17:29	11/04/20 13:49	1
Dibromofluoromethane	102		75 - 126	10/29/20 17:29	11/04/20 13:49	1
Toluene-d8 (Surr)	90		75 - 124	10/29/20 17:29	11/04/20 13:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190269-1

Client Sample ID: 3043V-57-B01

Lab Sample ID: 500-190269-1

Date Collected: 10/28/20 10:50

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Anthracene	<0.040		0.040	0.0066	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☆	11/11/20 06:50	11/12/20 13:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190269-1

Client Sample ID: 3043V-57-B01

Lab Sample ID: 500-190269-1

Date Collected: 10/28/20 10:50

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	✱	11/11/20 06:50	11/12/20 13:30	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✱	11/11/20 06:50	11/12/20 13:30	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	✱	11/11/20 06:50	11/12/20 13:30	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	✱	11/11/20 06:50	11/12/20 13:30	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	✱	11/11/20 06:50	11/12/20 13:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✱	11/11/20 06:50	11/12/20 13:30	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	✱	11/11/20 06:50	11/12/20 13:30	1
Phenanthrene	<0.040		0.040	0.0055	mg/Kg	✱	11/11/20 06:50	11/12/20 13:30	1
Phenol	<0.20		0.20	0.088	mg/Kg	✱	11/11/20 06:50	11/12/20 13:30	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	✱	11/11/20 06:50	11/12/20 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	42		31 - 143	11/11/20 06:50	11/12/20 13:30	1
2-Fluorobiphenyl	64		43 - 145	11/11/20 06:50	11/12/20 13:30	1
2-Fluorophenol	88		31 - 166	11/11/20 06:50	11/12/20 13:30	1
Nitrobenzene-d5	69		37 - 147	11/11/20 06:50	11/12/20 13:30	1
Phenol-d5	78		30 - 153	11/11/20 06:50	11/12/20 13:30	1
Terphenyl-d14	76		42 - 157	11/11/20 06:50	11/12/20 13:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.2	0.22	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Arsenic	7.3		0.58	0.20	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Barium	100		0.58	0.066	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Beryllium	0.89		0.23	0.054	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Boron	6.5		2.9	0.27	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Cadmium	0.054	J B	0.12	0.021	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Calcium	16000	B	12	2.0	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Chromium	19		0.58	0.29	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Cobalt	12		0.29	0.075	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Copper	23		0.58	0.16	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Iron	22000		12	6.0	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Lead	16		0.29	0.13	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Magnesium	12000	B	5.8	2.9	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Manganese	150		0.58	0.084	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Nickel	33		0.58	0.17	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Potassium	1700		29	10	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Selenium	0.40	J	0.58	0.34	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Silver	0.42		0.29	0.074	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Sodium	450		58	8.5	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Thallium	0.40	J	0.58	0.29	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Vanadium	28		0.29	0.068	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1
Zinc	55		1.2	0.51	mg/Kg	✱	11/05/20 19:10	11/06/20 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/09/20 17:34	11/10/20 17:36	1
Barium	<0.50		0.50	0.050	mg/L		11/09/20 17:34	11/10/20 17:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/09/20 17:34	11/10/20 17:36	1
Boron	0.068	J	0.10	0.050	mg/L		11/09/20 17:34	11/10/20 17:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190269-1

Client Sample ID: 3043V-57-B01

Lab Sample ID: 500-190269-1

Date Collected: 10/28/20 10:50

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 82.6

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		11/09/20 17:34	11/10/20 17:36	1
Calcium	7.1		2.5	0.50	mg/L		11/09/20 17:34	11/10/20 17:36	1
Chromium	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:36	1
Cobalt	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:36	1
Iron	4.4		0.40	0.20	mg/L		11/09/20 17:34	11/10/20 17:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/09/20 17:34	11/10/20 17:36	1
Manganese	0.019	J	0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:36	1
Nickel	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:36	1
Potassium	2.9		2.5	0.50	mg/L		11/09/20 17:34	11/10/20 17:36	1
Selenium	<0.050		0.050	0.020	mg/L		11/09/20 17:34	11/10/20 17:36	1
Silver	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:36	1
Zinc	0.021	J	0.50	0.020	mg/L		11/09/20 17:34	11/10/20 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/09/20 17:34	11/10/20 21:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/09/20 17:34	11/10/20 21:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/10/20 09:25	11/11/20 08:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0064	mg/Kg	⚠	11/09/20 13:35	11/10/20 07:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.30		0.30	0.15	mg/Kg	⚠	11/11/20 10:03	11/11/20 12:47	1
pH	7.5		0.2	0.2	SU			11/03/20 20:41	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190269-1

Client Sample ID: 3043V-57-B02

Lab Sample ID: 500-190269-2

Date Collected: 10/28/20 11:15

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0026		0.0026	0.00086	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
1,1,2,2-Tetrachloroethane	<0.0026		0.0026	0.00082	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
1,1,2-Trichloroethane	<0.0026		0.0026	0.0011	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
1,1-Dichloroethane	<0.0026		0.0026	0.00088	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
1,1-Dichloroethene	<0.0026		0.0026	0.00089	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
1,2-Dichloroethane	<0.0064		0.0064	0.0020	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
1,2-Dichloropropane	<0.0026		0.0026	0.00067	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
1,3-Dichloropropene, Total	<0.0026		0.0026	0.00090	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
2-Butanone (MEK)	<0.0064		0.0064	0.0029	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
2-Hexanone	<0.0064		0.0064	0.0020	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
4-Methyl-2-pentanone (MIBK)	<0.0064		0.0064	0.0019	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Acetone	<0.026		0.026	0.011	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Benzene	<0.0026		0.0026	0.00066	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Bromodichloromethane	<0.0026		0.0026	0.00052	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Bromoform	<0.0026		0.0026	0.00075	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Bromomethane	<0.0064		0.0064	0.0024	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Carbon disulfide	<0.0064		0.0064	0.0013	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Carbon tetrachloride	<0.0026		0.0026	0.00075	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Chlorobenzene	<0.0026		0.0026	0.00095	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Chloroethane	<0.0064		0.0064	0.0019	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Chloroform	<0.0026		0.0026	0.00089	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Chloromethane	<0.0064		0.0064	0.0026	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
cis-1,2-Dichloroethene	<0.0026		0.0026	0.00072	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
cis-1,3-Dichloropropene	<0.0026		0.0026	0.00078	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Dibromochloromethane	<0.0026		0.0026	0.00084	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Ethylbenzene	<0.0026		0.0026	0.0012	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Methyl tert-butyl ether	<0.0026		0.0026	0.00076	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Methylene Chloride	<0.0064		0.0064	0.0025	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Styrene	<0.0026		0.0026	0.00078	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Tetrachloroethene	<0.0026		0.0026	0.00088	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Toluene	<0.0026		0.0026	0.00065	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
trans-1,2-Dichloroethene	<0.0026		0.0026	0.0011	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
trans-1,3-Dichloropropene	<0.0026		0.0026	0.00090	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Trichloroethene	<0.0026		0.0026	0.00087	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Vinyl chloride	<0.0026		0.0026	0.0011	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1
Xylenes, Total	<0.0051		0.0051	0.00082	mg/Kg	☆	10/29/20 17:29	11/05/20 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	10/29/20 17:29	11/05/20 15:22	1
4-Bromofluorobenzene (Surr)	103		75 - 131	10/29/20 17:29	11/05/20 15:22	1
Dibromofluoromethane	110		75 - 126	10/29/20 17:29	11/05/20 15:22	1
Toluene-d8 (Surr)	81		75 - 124	10/29/20 17:29	11/05/20 15:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190269-1

Client Sample ID: 3043V-57-B02

Lab Sample ID: 500-190269-2

Date Collected: 10/28/20 11:15

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☆	11/11/20 06:50	11/12/20 08:29	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190269-1

Client Sample ID: 3043V-57-B02

Lab Sample ID: 500-190269-2

Date Collected: 10/28/20 11:15

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	✱	11/11/20 06:50	11/12/20 08:29	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✱	11/11/20 06:50	11/12/20 08:29	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	✱	11/11/20 06:50	11/12/20 08:29	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	✱	11/11/20 06:50	11/12/20 08:29	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	✱	11/11/20 06:50	11/12/20 08:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✱	11/11/20 06:50	11/12/20 08:29	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	✱	11/11/20 06:50	11/12/20 08:29	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	✱	11/11/20 06:50	11/12/20 08:29	1
Phenol	<0.19		0.19	0.084	mg/Kg	✱	11/11/20 06:50	11/12/20 08:29	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	✱	11/11/20 06:50	11/12/20 08:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		31 - 143	11/11/20 06:50	11/12/20 08:29	1
2-Fluorobiphenyl	83		43 - 145	11/11/20 06:50	11/12/20 08:29	1
2-Fluorophenol	99		31 - 166	11/11/20 06:50	11/12/20 08:29	1
Nitrobenzene-d5	78		37 - 147	11/11/20 06:50	11/12/20 08:29	1
Phenol-d5	90		30 - 153	11/11/20 06:50	11/12/20 08:29	1
Terphenyl-d14	96		42 - 157	11/11/20 06:50	11/12/20 08:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.1	0.21	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Arsenic	10		0.54	0.19	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Barium	62		0.54	0.062	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Beryllium	0.75		0.22	0.051	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Boron	10		2.7	0.25	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Cadmium	0.083	J B	0.11	0.020	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Calcium	3800	B	11	1.8	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Chromium	19		0.54	0.27	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Cobalt	16		0.27	0.071	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Copper	27		0.54	0.15	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Iron	25000		11	5.6	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Lead	18		0.27	0.13	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Magnesium	5400	B	5.4	2.7	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Manganese	610		0.54	0.079	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Nickel	42		0.54	0.16	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Potassium	2500		27	9.6	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Selenium	0.33	J	0.54	0.32	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Silver	0.42		0.27	0.070	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Sodium	180		54	8.0	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Thallium	<0.54		0.54	0.27	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Vanadium	26		0.27	0.064	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1
Zinc	68		1.1	0.48	mg/Kg	✱	11/05/20 19:10	11/06/20 13:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L	—	11/09/20 17:32	11/10/20 16:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190269-1

Client Sample ID: 3043V-57-B02

Lab Sample ID: 500-190269-2

Date Collected: 10/28/20 11:15

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/09/20 17:34	11/10/20 17:39	1
Barium	0.058	J	0.50	0.050	mg/L		11/09/20 17:34	11/10/20 17:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/09/20 17:34	11/10/20 17:39	1
Boron	0.071	J	0.10	0.050	mg/L		11/09/20 17:34	11/10/20 17:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/09/20 17:34	11/10/20 17:39	1
Calcium	6.7		2.5	0.50	mg/L		11/09/20 17:34	11/10/20 17:39	1
Chromium	0.013	J	0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:39	1
Cobalt	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:39	1
Iron	11		0.40	0.20	mg/L		11/09/20 17:34	11/10/20 17:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/09/20 17:34	11/10/20 17:39	1
Manganese	0.037		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:39	1
Nickel	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:39	1
Potassium	5.0		2.5	0.50	mg/L		11/09/20 17:34	11/10/20 17:39	1
Selenium	<0.050		0.050	0.020	mg/L		11/09/20 17:34	11/10/20 17:39	1
Silver	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 17:39	1
Zinc	0.025	J	0.50	0.020	mg/L		11/09/20 17:34	11/10/20 17:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/09/20 17:34	11/10/20 21:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/09/20 17:34	11/10/20 21:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/10/20 09:25	11/11/20 08:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0060	mg/Kg	✱	11/09/20 13:35	11/10/20 07:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.15	J	0.31	0.15	mg/Kg	✱	11/11/20 10:03	11/11/20 12:48	1
pH	8.2		0.2	0.2	SU			11/03/20 20:44	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190269-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
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
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
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190269-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 3512 (US 14) Office Phone Number, if available: _____

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

159-177 Village Court and 130 East Northwest Highway

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.05569 Longitude: - 87.91901

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

Approximate Start Date (mm/dd/yyyy): N/A Approximate End Date (mm/dd/yyyy): N/A

Estimated Volume of debris (cu. Yd.): 149

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil 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 3043V-59-B01 WAS SAMPLED ADJACENT TO SITES 3043V-58 AND 3043V-59. SEE TABLE 3k AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-190273-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Dec 14, 2020

Date:



The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 3043V-59

Residential Building

Sample ID	3043V-59-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-2					
Sample Date	10/28/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0					
Sample pH	8.4					
Matrix	Soil					
No Contaminats of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-190273-1
Client Project/Site: IDOT - AE7-039

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
11/13/2020 9:14:21 AM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190273-1

Client Sample ID: 3043V-59-B01

Lab Sample ID: 500-190273-1

Date Collected: 10/28/20 11:20

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Acetone	<0.020		0.020	0.0087	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Carbon tetrachloride	<0.0020 *		0.0020	0.00058	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☆	10/29/20 17:29	11/04/20 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	10/29/20 17:29	11/04/20 14:14	1
4-Bromofluorobenzene (Surr)	100		75 - 131	10/29/20 17:29	11/04/20 14:14	1
Dibromofluoromethane	105		75 - 126	10/29/20 17:29	11/04/20 14:14	1
Toluene-d8 (Surr)	90		75 - 124	10/29/20 17:29	11/04/20 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190273-1

Client Sample ID: 3043V-59-B01

Lab Sample ID: 500-190273-1

Date Collected: 10/28/20 11:20

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
4-Chloroaniline	<0.79		0.79	0.19	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☆	11/09/20 21:03	11/12/20 01:48	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190273-1

Client Sample ID: 3043V-59-B01

Lab Sample ID: 500-190273-1

Date Collected: 10/28/20 11:20

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	✱	11/09/20 21:03	11/12/20 01:48	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✱	11/09/20 21:03	11/12/20 01:48	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	✱	11/09/20 21:03	11/12/20 01:48	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	✱	11/09/20 21:03	11/12/20 01:48	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	✱	11/09/20 21:03	11/12/20 01:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✱	11/09/20 21:03	11/12/20 01:48	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	✱	11/09/20 21:03	11/12/20 01:48	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	✱	11/09/20 21:03	11/12/20 01:48	1
Phenol	<0.20		0.20	0.088	mg/Kg	✱	11/09/20 21:03	11/12/20 01:48	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	✱	11/09/20 21:03	11/12/20 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	90		31 - 143	11/09/20 21:03	11/12/20 01:48	1
2-Fluorobiphenyl	78		43 - 145	11/09/20 21:03	11/12/20 01:48	1
2-Fluorophenol	78		31 - 166	11/09/20 21:03	11/12/20 01:48	1
Nitrobenzene-d5	73		37 - 147	11/09/20 21:03	11/12/20 01:48	1
Phenol-d5	71		30 - 153	11/09/20 21:03	11/12/20 01:48	1
Terphenyl-d14	91		42 - 157	11/09/20 21:03	11/12/20 01:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J	1.2	0.23	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Arsenic	8.8		0.58	0.20	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Barium	77		0.58	0.066	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Beryllium	0.91		0.23	0.054	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Boron	16		2.9	0.27	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Cadmium	0.17	B	0.12	0.021	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Calcium	64000	B	120	20	mg/Kg	✱	11/09/20 18:54	11/10/20 13:11	10
Chromium	21		0.58	0.29	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Cobalt	19		0.29	0.076	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Copper	25	B	0.58	0.16	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Iron	23000		12	6.0	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Lead	15		0.29	0.13	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Magnesium	23000		5.8	2.9	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Manganese	690		0.58	0.084	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Nickel	43		0.58	0.17	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Potassium	3400		29	10	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Selenium	<0.58		0.58	0.34	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Silver	<0.29		0.29	0.075	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Sodium	170		58	8.6	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Thallium	0.35	J	0.58	0.29	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Vanadium	29		0.29	0.069	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1
Zinc	62		1.2	0.51	mg/Kg	✱	11/09/20 18:54	11/10/20 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/09/20 17:34	11/10/20 18:12	1
Barium	<0.50		0.50	0.050	mg/L		11/09/20 17:34	11/10/20 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/09/20 17:34	11/10/20 18:12	1
Boron	<0.10		0.10	0.050	mg/L		11/09/20 17:34	11/10/20 18:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190273-1

Client Sample ID: 3043V-59-B01

Lab Sample ID: 500-190273-1

Date Collected: 10/28/20 11:20

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 84.0

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		11/09/20 17:34	11/10/20 18:12	1
Calcium	9.8		2.5	0.50	mg/L		11/09/20 17:34	11/10/20 18:12	1
Chromium	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:12	1
Cobalt	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:12	1
Iron	1.7		0.40	0.20	mg/L		11/09/20 17:34	11/10/20 18:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/09/20 17:34	11/10/20 18:12	1
Manganese	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:12	1
Nickel	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:12	1
Potassium	<2.5		2.5	0.50	mg/L		11/09/20 17:34	11/10/20 18:12	1
Selenium	<0.050		0.050	0.020	mg/L		11/09/20 17:34	11/10/20 18:12	1
Silver	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:12	1
Zinc	<0.50		0.50	0.020	mg/L		11/09/20 17:34	11/10/20 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/09/20 17:34	11/10/20 22:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/09/20 17:34	11/10/20 22:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/10/20 09:25	11/11/20 09:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.017	0.0058	mg/Kg	☆	11/09/20 13:35	11/10/20 08:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.22		0.22	0.11	mg/Kg	☆	11/11/20 10:03	11/11/20 12:50	1
pH	8.4		0.2	0.2	SU			11/03/20 20:46	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190273-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190273-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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: FAU 3512 (US 14) Office Phone Number, if available: _____

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

140-150 East Northwest Highway

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.05549 Longitude: - 87.91854

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

Approximate Start Date (mm/dd/yyyy): N/A Approximate End Date (mm/dd/yyyy): N/A

Estimated Volume of debris (cu. Yd.): 21

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil 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 3043V-61-B01 WAS SAMPLED ADJACENT TO SITES 3043V-60 AND 3043V-61. SEE TABLE 3I AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

- 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]:

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-190274-1.

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

I, Savo Radulovic, 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: Andrews Engineering, Inc.
Street Address: 420 Eisenhower Lane North
City: Lombard State: IL Zip Code: 60148
Phone: 630-953-3332

Savo Radulovic

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Dec 14, 2020

Date:



The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
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
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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc
Cyanide
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc
Cyanide

ISGS Site 3043V-61
Residential Building

Sample ID	3043V-61-B01	Maximum Allowable Concentration				
Sample Depth (ft)	0-2					
Sample Date	10/28/2020	¹ Most Stringent	² Outside a Populated Area	³ Within a Populated non-Metropolitan Statistical Area	⁴ Within Chicago Corporate Limits	⁵ Within a Metropolitan Statistical Area
PID	0					
Sample pH	8.2					
Matrix	Soil					
No Contaminats of Concern Noted.						

ANALYTICAL REPORT

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

Laboratory Job ID: 500-190274-1
Client Project/Site: IDOT - AE7-039

For:

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

Attn: Ms. Colleen Grey



Authorized for release by:
11/13/2020 9:16:11 AM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190274-1

Client Sample ID: 3043V-61-B01

Lab Sample ID: 500-190274-1

Date Collected: 10/28/20 11:25

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0015	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Acetone	<0.020		0.020	0.0086	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Carbon tetrachloride	<0.0020 *		0.0020	0.00057	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Chlorobenzene	<0.0020		0.0020	0.00072	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Chloroethane	<0.0049		0.0049	0.0015	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	☆	10/29/20 17:29	11/04/20 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	10/29/20 17:29	11/04/20 14:40	1
4-Bromofluorobenzene (Surr)	102		75 - 131	10/29/20 17:29	11/04/20 14:40	1
Dibromofluoromethane	105		75 - 126	10/29/20 17:29	11/04/20 14:40	1
Toluene-d8 (Surr)	88		75 - 124	10/29/20 17:29	11/04/20 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190274-1

Client Sample ID: 3043V-61-B01

Lab Sample ID: 500-190274-1

Date Collected: 10/28/20 11:25

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Benzo[a]anthracene	0.019	J	0.041	0.0056	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Benzo[a]pyrene	0.023	J	0.041	0.0080	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Benzo[b]fluoranthene	0.035	J	0.041	0.0089	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Benzo[g,h,i]perylene	0.018	J	0.041	0.013	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Benzo[k]fluoranthene	0.013	J	0.041	0.012	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Chrysene	0.026	J	0.041	0.011	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Fluoranthene	0.034	J	0.041	0.0077	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☆	11/09/20 21:03	11/12/20 02:11	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190274-1

Client Sample ID: 3043V-61-B01

Lab Sample ID: 500-190274-1

Date Collected: 10/28/20 11:25

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	✱	11/09/20 21:03	11/12/20 02:11	1
Isophorone	<0.21		0.21	0.046	mg/Kg	✱	11/09/20 21:03	11/12/20 02:11	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	✱	11/09/20 21:03	11/12/20 02:11	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	✱	11/09/20 21:03	11/12/20 02:11	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.051	mg/Kg	✱	11/09/20 21:03	11/12/20 02:11	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	✱	11/09/20 21:03	11/12/20 02:11	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	✱	11/09/20 21:03	11/12/20 02:11	1
Phenanthrene	0.0097	J	0.041	0.0058	mg/Kg	✱	11/09/20 21:03	11/12/20 02:11	1
Phenol	<0.21		0.21	0.092	mg/Kg	✱	11/09/20 21:03	11/12/20 02:11	1
Pyrene	0.033	J	0.041	0.0082	mg/Kg	✱	11/09/20 21:03	11/12/20 02:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	110		31 - 143				11/09/20 21:03	11/12/20 02:11	1
2-Fluorobiphenyl	85		43 - 145				11/09/20 21:03	11/12/20 02:11	1
2-Fluorophenol	85		31 - 166				11/09/20 21:03	11/12/20 02:11	1
Nitrobenzene-d5	81		37 - 147				11/09/20 21:03	11/12/20 02:11	1
Phenol-d5	79		30 - 153				11/09/20 21:03	11/12/20 02:11	1
Terphenyl-d14	101		42 - 157				11/09/20 21:03	11/12/20 02:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.83	J	1.2	0.23	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Arsenic	8.1		0.60	0.20	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Barium	110		0.60	0.068	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Beryllium	1.2		0.24	0.056	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Boron	15		3.0	0.28	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Cadmium	<0.12		0.12	0.022	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Calcium	10000	B	12	2.0	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Chromium	29		0.60	0.30	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Cobalt	15		0.30	0.078	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Copper	27	B	0.60	0.17	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Iron	27000		12	6.2	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Lead	21		0.30	0.14	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Magnesium	10000		6.0	3.0	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Manganese	450		0.60	0.087	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Nickel	42		0.60	0.17	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Potassium	3600		30	11	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Selenium	<0.60		0.60	0.35	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Silver	<0.30		0.30	0.077	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Sodium	530		60	8.9	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Thallium	<0.60		0.60	0.30	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Vanadium	38		0.30	0.071	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1
Zinc	72		1.2	0.53	mg/Kg	✱	11/09/20 18:54	11/10/20 12:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/09/20 17:32	11/10/20 16:50	1
Chromium	<0.025		0.025	0.010	mg/L		11/09/20 17:32	11/10/20 16:50	1
Iron	<0.40		0.40	0.20	mg/L		11/09/20 17:32	11/10/20 16:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/09/20 17:32	11/10/20 16:50	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190274-1

Client Sample ID: 3043V-61-B01

Lab Sample ID: 500-190274-1

Date Collected: 10/28/20 11:25

Matrix: Solid

Date Received: 10/29/20 11:25

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.35		0.025	0.010	mg/L		11/09/20 17:32	11/10/20 16:50	1
Nickel	<0.025		0.025	0.010	mg/L		11/09/20 17:32	11/10/20 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.042	J	0.050	0.010	mg/L		11/09/20 17:34	11/10/20 18:15	1
Barium	0.45	J	0.50	0.050	mg/L		11/09/20 17:34	11/10/20 18:15	1
Beryllium	0.0051		0.0040	0.0040	mg/L		11/09/20 17:34	11/10/20 18:15	1
Boron	0.18		0.10	0.050	mg/L		11/09/20 17:34	11/10/20 18:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/09/20 17:34	11/10/20 18:15	1
Calcium	17	F1	2.5	0.50	mg/L		11/09/20 17:34	11/10/20 18:15	1
Chromium	0.12		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:15	1
Cobalt	0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:15	1
Iron	120		0.40	0.20	mg/L		11/09/20 17:34	11/10/20 18:15	1
Lead	0.033		0.0075	0.0075	mg/L		11/09/20 17:34	11/10/20 18:15	1
Manganese	0.38		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:15	1
Nickel	0.12		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:15	1
Potassium	20	F1	2.5	0.50	mg/L		11/09/20 17:34	11/10/20 18:15	1
Selenium	<0.050	F1	0.050	0.020	mg/L		11/09/20 17:34	11/10/20 18:15	1
Silver	<0.025		0.025	0.010	mg/L		11/09/20 17:34	11/10/20 18:15	1
Zinc	0.23	J	0.50	0.020	mg/L		11/09/20 17:34	11/10/20 18:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		11/09/20 17:32	11/11/20 14:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		11/09/20 17:34	11/10/20 22:27	1
Thallium	0.0021		0.0020	0.0020	mg/L		11/09/20 17:34	11/10/20 22:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/10/20 09:25	11/11/20 09:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020	0.0066	mg/Kg	☆	11/09/20 13:35	11/10/20 08:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.34		0.34	0.17	mg/Kg	☆	11/11/20 10:03	11/11/20 13:03	1
pH	8.2		0.2	0.2	SU			11/03/20 19:06	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190274-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
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
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-039

Job ID: 500-190274-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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

