



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: FAI I-80 (I-80) Office Phone Number, if available: _____

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

I-80 from west of Joliet Junction Trail to Wheeler Avenue (Station 518+00 to Station 641+00 LT and RT)

City: Rockdale, Joliet, Unincorp. State: IL Zip Code: 60436

County: Will Township: Joliet & Troy

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

Latitude: 41.51079 Longitude: -88.13263
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Additional BOLs: 1974450049, 1970453023, 1970455112, 1970455373, 1978095133, 1978093008, 1970453019, 1974450182

IEPA Site Number(s), if assigned: BOL: 1978995012 BOW: _____ BOA: _____

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

Estimated Volume of debris (cu. Yd.): 90,293

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 2233V3-1-B117 THRU -B121, -B127,-B129, -B131, -B136 THRU -B138, -B142, -B143, -B150, -B151, -B154 THRU -B156, -B158 THRU -B160, -B163, -B165, -B167 THRU -B171, -B174 THRU -B176, -B178, -B181 THRU -B184, -B186, -B189, -B196, AND -B197 WERE SAMPLED ADJACENT TO SITE 2233V3-1. SEE TABLE 3 AND FIGURES 2 THRU 8 of PSI 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 ANALYTICAL REPORT - EUROFINS JOB ID NUMBERS: 500-232585-1, 500-232642-1, 500-232668-1, 500-233038-1, 500-233039-1, 500-233041-1, 500-233155-1, AND 500-233325-1.

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:

Jun 7, 2023
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
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
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 2233V3-1
ROW

Sample ID	2233V3-1-B117	2233V3-1-B118	2233V3-1-B119	2233V3-1-B120	2233V3-1-B121	2233V3-1-B127	Maximum Allowable Concentration				
Sample Depth (ft)	0-8	0-8	0-8	0-8	0-8	0-8	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	5/3/2023	5/3/2023	5/3/2023	5/3/2023	5/3/2023	5/1/2023					
PID	0	0	0	0	0	0					
Sample pH	8.5	8.5	8.2	9	8.4	8.4					
Matrix	Soil	Soil	Soil	Soil	Soil	Soil					
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)anthracene	0.083	ND	0.046	ND	J 0.035	ND	0.9	0.9	0.9	10.9	1.8
Benzo(a)pyrene	0.13	1,2	0.098	1,2	ND	ND	0.09	0.09	0.98	11.4	2.1
Benzo(b)fluoranthene	0.15	ND	0.12	0.046	0.056	ND	0.9	0.9	0.9	13.1	2.1
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	0.09	0.09	0.15	1.03	0.42
Indeno(1,2,3-cd)pyrene	0.12	ND	0.1	ND	ND	ND	0.9	0.9	0.9	5.77	1.6
Inorganic Compounds, Total (mg/kg)											
Arsenic	6.9	8.4	6.5	8.5	8.7	8.6	11.3	--	11.3	--	13

Sample ID	2233V3-1-B129	2233V3-1-B131	2233V3-1-B131 DUP	2233V3-1-B136	2233V3-1-B137	2233V3-1-B138	Maximum Allowable Concentration				
Sample Depth (ft)	0-8	0-8	0-8	0-8	0-8	0-8	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	5/1/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023					
PID	0	0	0	0	0	0					
Sample pH	7.7	8.1	8.2	8.5	8.1	9					
Matrix	Soil	Soil	Soil	Soil	Soil	Soil					
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)anthracene	J 0.021	ND	ND	0.064	0.065	J 0.014	0.9	0.9	0.9	10.9	1.8
Benzo(a)pyrene	ND	ND	ND	0.082	0.059	ND	0.09	0.09	0.98	11.4	2.1
Benzo(b)fluoranthene	ND	ND	ND	0.098	0.061	ND	0.9	0.9	0.9	13.1	2.1
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	0.09	0.09	0.15	1.03	0.42
Indeno(1,2,3-cd)pyrene	ND	ND	ND	0.093	ND	ND	0.9	0.9	0.9	5.77	1.6
Inorganic Compounds, Total (mg/kg)											
Arsenic	7.3	6.3	8.7	11	9.5	11	11.3	--	11.3	--	13

Sample ID	2233V3-1-B138 DUP	2233V3-1-B142	2233V3-1-B143	2233V3-1-B150-1	2233V3-1-B150-2	2233V3-1-B150-3	Maximum Allowable Concentration				
Sample Depth (ft)	0-8	0-8	0-8	0-7	7-14	14-20	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	5/1/2023	4/20/2023	4/20/2023	4/20/2023	4/20/2023	4/20/2023					
PID	0	0	0	0	0	0					
Sample pH	9	7.9	7.7	7.7	7.5	7.7					
Matrix	Soil	Soil	Soil	Soil	Soil	Soil					
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)anthracene	0.094	0.041	ND	ND	ND	ND	0.9	0.9	0.9	10.9	1.8
Benzo(a)pyrene	0.12	1,2	0.051	ND	ND	ND	0.09	0.09	0.98	11.4	2.1
Benzo(b)fluoranthene	0.16	0.058	ND	ND	ND	ND	0.9	0.9	0.9	13.1	2.1
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	0.09	0.09	0.15	1.03	0.42
Indeno(1,2,3-cd)pyrene	0.099	0.055	ND	ND	ND	ND	0.9	0.9	0.9	5.77	1.6
Inorganic Compounds, Total (mg/kg)											
Arsenic	8	7	8	7.2	10	11	11.3	--	11.3	--	13

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ROW

Sample ID	2233V3-1-B151-1	2233V3-1-B151-2	2233V3-1-B151-3	2233V3-1-B154	2233V3-1-B155	2233V3-1-B156	Maximum Allowable Concentration									
Sample Depth (ft)	0-7	7-14	14-20	0-8	0-8	0-8	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	4/20/2023	4/20/2023	4/20/2023	4/21/2023	4/21/2023	4/21/2023										
PID	0	0	0	0	0	0										
Sample pH	7.5	7.8	8	8.7	8.9	8.2										
Matrix	Soil	Soil	Soil	Soil	Soil	Soil										
Semivolatile Organic Compounds (mg/kg)																
Benzo(a)anthracene	ND	ND	ND	0.075	0.049	ND	0.9	0.9	0.9	10.9	1.8					
Benzo(a)pyrene	ND	ND	ND	0.12	1,2	0.056	0.09	0.09	0.98	11.4	2.1					
Benzo(b)fluoranthene	ND	ND	ND	0.13		0.072	0.9	0.9	0.9	13.1	2.1					
Dibenzo(a,h)anthracene	ND	ND	ND	ND		J 0.0091	0.09	0.09	0.15	1.03	0.42					
Indeno(1,2,3-cd)pyrene	ND	ND	ND	0.1		0.064	0.9	0.9	0.9	5.77	1.6					
Inorganic Compounds, Total (mg/kg)																
Arsenic	12	1,3	8.3	2.5	8	7.5	12	1,3	11.3	--	11.3	--	13			

Sample ID	2233V3-1-B158-1	2233V3-1-B158-2	2233V3-1-B158-3	2233V3-1-B159	2233V3-1-B160	2233V3-1-B163-1	Maximum Allowable Concentration									
Sample Depth (ft)	0-7	7-14	14-20	0-8	0-8	0-8	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	4/19/2023	4/19/2023	4/19/2023	4/19/2023	4/19/2023	4/19/2023										
PID	0	0	0	0	0	0										
Sample pH	8.6	8.2	7.8	8.1	8.3	8.7										
Matrix	Soil	Soil	Soil	Soil	Soil	Soil										
Semivolatile Organic Compounds (mg/kg)																
Benzo(a)anthracene	J 0.035	J 0.011	J 0.024	0.054	0.042	1.1	0.9	0.9	0.9	10.9	1.8					
Benzo(a)pyrene	0.065	ND	0.055	0.094	1,2	0.04	0.09	0.09	0.98	11.4	2.1					
Benzo(b)fluoranthene	0.072	ND	0.061	0.1		0.058	0.9	0.9	0.9	13.1	2.1					
Dibenzo(a,h)anthracene	ND	ND	ND	0.048	ND	0.17	0.09	0.09	0.15	1.03	0.42					
Indeno(1,2,3-cd)pyrene	0.052	ND	0.041	0.11	J 0.036	1.2	0.9	0.9	0.9	5.77	1.6					
Inorganic Compounds, Total (mg/kg)																
Arsenic	6.1	9	8.5	6.4	6.7	9.9	11.3	--	11.3	--	13					

Sample ID	2233V3-1-B163-2	2233V3-1-B163-3	2233V3-1-B165	2233V3-1-B167	2233V3-1-B168	2233V3-1-B169	Maximum Allowable Concentration									
Sample Depth (ft)	8-14	14-16	0-8	0-8	0-8	0-8	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	4/19/2023	4/19/2023	4/19/2023	4/19/2023	4/28/2023	4/28/2023										
PID	0	0	0	0	0	0										
Sample pH	9	8.8	9	9	8.3	8.1										
Matrix	Soil	Soil	Soil	Soil	Soil	Soil										
Semivolatile Organic Compounds (mg/kg)																
Benzo(a)anthracene	J 0.016	J 0.025	0.048	0.28	J 0.012	ND	0.9	0.9	0.9	10.9	1.8					
Benzo(a)pyrene	ND	0.053	0.089	0.3	1,2	0.045	0.09	0.09	0.98	11.4	2.1					
Benzo(b)fluoranthene	0.05	0.055	0.11	0.36		0.044	0.9	0.9	0.9	13.1	2.1					
Dibenzo(a,h)anthracene	ND	ND	ND	0.073	ND	ND	0.09	0.09	0.15	1.03	0.42					
Indeno(1,2,3-cd)pyrene	J 0.033	0.042	0.11	0.36	ND	ND	0.9	0.9	0.9	5.77	1.6					
Inorganic Compounds, Total (mg/kg)																
Arsenic	8	8.4	7.5	9	8.8	9.5	11.3	--	11.3	--	13					

ISGS Site 2233V3-1
ROW

Sample ID	2233V3-1-B170	2233V3-1-B170 DUP	2233V3-1-B171	2233V3-1-B174	2233V3-1-B175-1	2233V3-1-B175-2	Maximum Allowable Concentration				
Sample Depth (ft)	0-8	0-8	0-8	0-8	0-7	7-14	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	4/28/2023	4/28/2023	4/28/2023	4/28/2023	4/28/2023	4/28/2023					
PID	0	0	0	0	0	0					
Sample pH	8	7.9	7.7	8.3	8.5	8.2					
Matrix	Soil	Soil	Soil	Soil	Soil	Soil					
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)anthracene	ND	ND	J 0.018	J 0.022	ND	ND	0.9	0.9	0.9	10.9	1.8
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	0.09	0.09	0.98	11.4	2.1
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	0.9	0.9	0.9	13.1	2.1
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	0.09	0.09	0.15	1.03	0.42
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	0.9	0.9	0.9	5.77	1.6
Inorganic Compounds, Total (mg/kg)							11.3	--	11.3	--	13
Arsenic	8.1	9.1	7.4	9.2	7.9	7.3					

Sample ID	2233V3-1-B175-3	2233V3-1-B176-1	2233V3-1-B176-2	2233V3-1-B176-2 DUP	2233V3-1-B176-3	2233V3-1-B178	Maximum Allowable Concentration				
Sample Depth (ft)	14-20	0-7	7-14	7-14	14-17	0-8	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	4/28/2023	4/28/2023	4/28/2023	4/28/2023	4/28/2023	4/28/2023					
PID	0	0	0	0	0	0					
Sample pH	8.1	8.6	7.8	7.9	7.9	8.6					
Matrix	Soil	Soil	Soil	Soil	Soil	Soil					
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)anthracene	ND	J 0.016	ND	ND	J 0.015	J 0.022	0.9	0.9	0.9	10.9	1.8
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	0.09	0.09	0.98	11.4	2.1
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	0.9	0.9	0.9	13.1	2.1
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	0.09	0.09	0.15	1.03	0.42
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	0.9	0.9	0.9	5.77	1.6
Inorganic Compounds, Total (mg/kg)							11.3	--	11.3	--	13
Arsenic	8	8.1	8.5	7.5	5.7	9.5					

Sample ID	2233V3-1-B181	2233V3-1-B181 DUP	2233V3-1-B182	2233V3-1-B183	2233V3-1-B184	2233V3-1-B184 DUP	Maximum Allowable Concentration				
Sample Depth (ft)	0-8	0-8	0-8	0-8	0-8	0-8	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	4/20/2023	4/20/2023	4/20/2023	4/27/2023	4/27/2023	4/27/2023					
PID	0	0	0	0	0	0					
Sample pH	8.7	8.2	8	7.9	7.3	7.5					
Matrix	Soil	Soil	Soil	Soil	Soil	Soil					
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)anthracene	ND	ND	ND	0.069	ND	J 0.013	0.9	0.9	0.9	10.9	1.8
Benzo(a)pyrene	ND	ND	ND	0.079	ND	ND	0.09	0.09	0.98	11.4	2.1
Benzo(b)fluoranthene	ND	ND	ND	0.098	ND	ND	0.9	0.9	0.9	13.1	2.1
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	0.09	0.09	0.15	1.03	0.42
Indeno(1,2,3-cd)pyrene	ND	ND	ND	0.074	ND	ND	0.9	0.9	0.9	5.77	1.6
Inorganic Compounds, Total (mg/kg)							11.3	--	11.3	--	13
Arsenic	9.3	10	8.7	5.5	8.1	11					

ISGS Site 2233V3-1
ROW

Sample ID	2233V3-1-B186-1	2233V3-1-B186-2	2233V3-1-B186-3	2233V3-1-B189-1	2233V3-1-B189-2	2233V3-1-B189-3	Maximum Allowable Concentration				
Sample Depth (ft)	0-7	7-14	14-20	0-7	7-14	14-20	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	4/27/2023	4/27/2023	4/27/2023	4/27/2023	4/27/2023	4/27/2023					
PID	0	0	0	0	0	0					
Sample pH	8.2	8.4	7.9	7.3	7.1	7.4					
Matrix	Soil	Soil	Soil	Soil	Soil	Soil					
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)anthracene	0.058	ND	ND	ND	0.062	ND					
Benzo(a)pyrene	0.071	ND	ND	ND	0.082	ND	0.09	0.09	0.98	11.4	2.1
Benzo(b)fluoranthene	0.11	ND	ND	ND	0.082	ND	0.9	0.9	0.9	13.1	2.1
Dibenzo(a,h)anthracene	ND	ND	ND	ND	0.047	ND	0.09	0.09	0.15	1.03	0.42
Indeno(1,2,3-cd)pyrene	0.059	ND	ND	ND	0.065	ND	0.9	0.9	0.9	5.77	1.6
Inorganic Compounds, Total (mg/kg)											
Arsenic	8.1	9.2	9.9	9.1	8.7	10	11.3	--	11.3	--	13

Sample ID	2233V3-1-B196-1	2233V3-1-B196-2	2233V3-1-B196-3	2233V3-1-B197	Maximum Allowable Concentration				
Sample Depth (ft)	0-7	7-14	14-17	0-8	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	4/21/2023	4/21/2023	4/21/2023	4/21/2023					
PID	0	0	0	0					
Sample pH	8.2	8.3	8.2	9					
Matrix	Soil	Soil	Soil	Soil					
Semivolatile Organic Compounds (mg/kg)									
Benzo(a)anthracene	0.27	ND	ND	ND					
Benzo(a)pyrene	0.25	1,2	ND	ND	0.09	0.09	0.98	11.4	2.1
Benzo(b)fluoranthene	0.27	ND	ND	ND	0.9	0.9	0.9	13.1	2.1
Dibenzo(a,h)anthracene	0.039	ND	ND	ND	0.09	0.09	0.15	1.03	0.42
Indeno(1,2,3-cd)pyrene	0.15	ND	ND	ND	0.9	0.9	0.9	5.77	1.6
Inorganic Compounds, Total (mg/kg)									
Arsenic	8.3	7.6	7	7.9	11.3	--	11.3	--	13



ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Colleen Grey
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Generated 5/5/2023 3:37:57 PM

JOB DESCRIPTION

IDOT - AE8-010

JOB NUMBER

500-232585-1

Eurofins Chicago

Job Notes

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Authorization



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Authorized for release by
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(708)534-5200

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B163-1

Lab Sample ID: 500-232585-1

Date Collected: 04/19/23 09:00

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 84.9

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0014		0.0014	0.00047	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00044	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00060	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
1,1-Dichloroethane	<0.0014		0.0014	0.00048	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
1,1-Dichloroethene	<0.0014		0.0014	0.00048	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
1,2-Dichloroethane	<0.0035		0.0035	0.0011	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
1,2-Dichloropropane	<0.0014		0.0014	0.00036	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00049	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
2-Butanone (MEK)	<0.0035		0.0035	0.0015	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
2-Hexanone	<0.0035		0.0035	0.0011	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.0010	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Acetone	<0.014		0.014	0.0060	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Benzene	<0.0014		0.0014	0.00035	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Bromodichloromethane	<0.0014		0.0014	0.00028	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Bromoform	<0.0014		0.0014	0.00041	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Bromomethane	<0.0035		0.0035	0.0013	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Carbon disulfide	<0.0035		0.0035	0.00072	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Carbon tetrachloride	<0.0014		0.0014	0.00040	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Chlorobenzene	<0.0014		0.0014	0.00051	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Chloroethane	<0.0035		0.0035	0.0010	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Chloroform	<0.0014		0.0014	0.00048	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Chloromethane	<0.0035		0.0035	0.0014	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00039	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00042	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Dibromochloromethane	<0.0014		0.0014	0.00045	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Ethylbenzene	<0.0014		0.0014	0.00066	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00041	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Methylene Chloride	<0.0035		0.0035	0.0014	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Styrene	<0.0014		0.0014	0.00042	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Tetrachloroethene	<0.0014		0.0014	0.00047	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Toluene	0.0012	J	0.0014	0.00035	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00061	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00049	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Trichloroethene	<0.0014		0.0014	0.00047	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Vinyl chloride	<0.0014		0.0014	0.00061	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1
Xylenes, Total	<0.0028		0.0028	0.00044	mg/Kg	✱	04/20/23 17:38	04/21/23 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	04/20/23 17:38	04/21/23 14:02	1
4-Bromofluorobenzene (Surr)	95		75 - 131	04/20/23 17:38	04/21/23 14:02	1
Dibromofluoromethane	98		75 - 126	04/20/23 17:38	04/21/23 14:02	1
Toluene-d8 (Surr)	88		75 - 124	04/20/23 17:38	04/21/23 14:02	1

Method: SW846 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	0.040	mg/Kg	✱	04/28/23 07:11	05/01/23 19:15	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✱	04/28/23 07:11	05/01/23 19:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✱	04/28/23 07:11	05/01/23 19:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✱	04/28/23 07:11	05/01/23 19:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✱	04/28/23 07:11	05/01/23 19:15	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B163-1

Lab Sample ID: 500-232585-1

Date Collected: 04/19/23 09:00

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 84.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
2-Methylnaphthalene	0.033	J	0.076	0.0069	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Acenaphthene	0.087		0.037	0.0067	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Acenaphthylene	0.19		0.037	0.0049	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Anthracene	0.26		0.037	0.0063	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Benzo[a]anthracene	1.1	F1 F2	0.037	0.0050	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Benzo[a]pyrene	1.1	F1 F2	0.037	0.0073	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Benzo[b]fluoranthene	1.6	F1 F2	0.037	0.0081	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Benzo[g,h,i]perylene	0.69	F1 F2	0.037	0.012	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Benzo[k]fluoranthene	0.64	F2	0.037	0.011	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Bis(2-ethylhexyl) phthalate	0.25		0.19	0.068	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Carbazole	0.12	J	0.19	0.094	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Chrysene	1.3	F1 F2	0.037	0.010	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Dibenz(a,h)anthracene	0.17	F1	0.037	0.0072	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Dibenzofuran	0.044	J	0.19	0.044	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Fluoranthene	2.5	F1 F2	0.037	0.0069	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Fluorene	0.084		0.037	0.0053	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Hexachlorocyclopentadiene	<0.76	F1	0.76	0.22	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B163-1

Lab Sample ID: 500-232585-1

Date Collected: 04/19/23 09:00

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 84.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	1.2	F1 F2	0.037	0.0097	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Naphthalene	0.030	J	0.037	0.0058	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Phenanthrene	1.3	F1 F2	0.037	0.0052	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Phenol	<0.19		0.19	0.083	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Pyrene	2.1	F1 F2	0.037	0.0074	mg/Kg	✳	04/28/23 07:11	05/01/23 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		31 - 143				04/28/23 07:11	05/01/23 19:15	1
2-Fluorobiphenyl	78		43 - 145				04/28/23 07:11	05/01/23 19:15	1
2-Fluorophenol	85		31 - 166				04/28/23 07:11	05/01/23 19:15	1
Nitrobenzene-d5 (Surr)	80		37 - 147				04/28/23 07:11	05/01/23 19:15	1
Phenol-d5	85		30 - 153				04/28/23 07:11	05/01/23 19:15	1
Terphenyl-d14 (Surr)	81		42 - 157				04/28/23 07:11	05/01/23 19:15	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.77	J F1 F2	1.1	0.21	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Arsenic	9.9	F1	0.55	0.19	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Barium	98		2.7	0.31	mg/Kg	✳	04/25/23 09:47	05/02/23 18:52	5
Beryllium	0.73		0.22	0.051	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Boron	10		2.7	0.26	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Cadmium	0.75	B	0.11	0.020	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Calcium	73000	F2	55	9.3	mg/Kg	✳	04/25/23 09:47	05/02/23 18:52	5
Chromium	26	F1	0.55	0.27	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Cobalt	10		0.27	0.072	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Copper	40	F1	0.55	0.15	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Iron	24000	B	55	29	mg/Kg	✳	04/25/23 09:47	05/02/23 18:52	5
Lead	98	F2	0.27	0.13	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Magnesium	39000	F2	27	14	mg/Kg	✳	04/25/23 09:47	05/02/23 18:52	5
Manganese	490		0.55	0.079	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Nickel	29		0.55	0.16	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Potassium	1700	F1 F2	27	9.7	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Selenium	0.54	J F1	0.55	0.32	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Silver	0.30		0.27	0.071	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Sodium	500	B	55	8.1	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Thallium	<0.55		0.55	0.27	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Vanadium	19		0.27	0.065	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1
Zinc	360	F2	1.1	0.48	mg/Kg	✳	04/25/23 09:47	05/01/23 20:33	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:32	05/01/23 18:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:32	05/01/23 18:03	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:03	1
Iron	<0.40		0.40	0.20	mg/L		04/26/23 17:32	05/01/23 18:03	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B163-1

Lab Sample ID: 500-232585-1

Date Collected: 04/19/23 09:00

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 84.9

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.073		0.0075	0.0075	mg/L		04/26/23 17:32	05/01/23 18:03	1
Manganese	1.7		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:03	1
Nickel	0.024	J	0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:03	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.10		0.050	0.010	mg/L		04/26/23 17:33	04/27/23 21:00	1
Barium	0.85		0.50	0.050	mg/L		04/26/23 17:33	04/27/23 21:00	1
Beryllium	0.011		0.0040	0.0040	mg/L		04/26/23 17:33	04/27/23 21:00	1
Boron	0.18		0.10	0.050	mg/L		04/26/23 17:33	04/27/23 21:00	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		04/26/23 17:33	04/27/23 21:00	1
Calcium	56		2.5	0.50	mg/L		04/26/23 17:33	04/27/23 21:00	1
Chromium	0.19		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:00	1
Cobalt	0.064		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:00	1
Iron	230		0.40	0.20	mg/L		04/26/23 17:33	04/27/23 21:00	1
Lead	0.29		0.0075	0.0075	mg/L		04/26/23 17:33	04/27/23 21:00	1
Manganese	1.4		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:00	1
Nickel	0.23		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:00	1
Potassium	36		2.5	0.50	mg/L		04/26/23 17:33	04/27/23 21:00	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:33	04/27/23 21:00	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:00	1
Zinc	1.8		0.50	0.020	mg/L		04/26/23 17:33	04/27/23 21:00	1

Method: SW846 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		04/26/23 17:32	04/28/23 17:23	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:33	04/27/23 15:15	1
Thallium	0.0035		0.0020	0.0020	mg/L		04/26/23 17:33	04/27/23 15:15	1

Method: SW846 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		05/01/23 12:30	05/02/23 12:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0096	mg/Kg	⊛	04/28/23 17:20	05/01/23 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.13	mg/Kg	⊛	04/24/23 09:20	04/24/23 13:15	1
pH (SW846 9045D)	8.7		0.2	0.2	SU			04/24/23 19:59	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B163-2

Lab Sample ID: 500-232585-2

Date Collected: 04/19/23 09:20

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 85.3

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Acetone	0.0081	J	0.016	0.0070	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Toluene	0.00047	J	0.0016	0.00041	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	✳	04/20/23 17:38	04/21/23 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	04/20/23 17:38	04/21/23 14:28	1
4-Bromofluorobenzene (Surr)	92		75 - 131	04/20/23 17:38	04/21/23 14:28	1
Dibromofluoromethane	101		75 - 126	04/20/23 17:38	04/21/23 14:28	1
Toluene-d8 (Surr)	88		75 - 124	04/20/23 17:38	04/21/23 14:28	1

Method: SW846 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	0.040	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B163-2

Lab Sample ID: 500-232585-2

Date Collected: 04/19/23 09:20

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
2,4-Dichlorophenol	<0.37		0.37	0.087	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.072	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
2-Methylnaphthalene	<0.074		0.074	0.0068	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
3 & 4 Methylphenol	<0.19		0.19	0.061	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Anthracene	<0.037		0.037	0.0061	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Benzo[a]anthracene	0.016	J	0.037	0.0050	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Benzo[a]pyrene	<0.037		0.037	0.0071	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Benzo[b]fluoranthene	0.050		0.037	0.0079	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Benzo[g,h,i]perylene	0.019	J	0.037	0.012	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Bis(2-ethylhexyl) phthalate	0.14	J	0.19	0.067	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Carbazole	<0.19		0.19	0.092	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Chrysene	0.014	J	0.037	0.010	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Fluoranthene	0.016	J	0.037	0.0068	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B163-2

Lab Sample ID: 500-232585-2

Date Collected: 04/19/23 09:20

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.033	J	0.037	0.0095	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Isophorone	<0.19		0.19	0.041	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.043	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Phenanthrene	0.011	J	0.037	0.0051	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Phenol	<0.19		0.19	0.082	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Pyrene	0.014	J	0.037	0.0073	mg/Kg	✳	04/28/23 07:11	05/01/23 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		31 - 143				04/28/23 07:11	05/01/23 18:00	1
2-Fluorobiphenyl	77		43 - 145				04/28/23 07:11	05/01/23 18:00	1
2-Fluorophenol	79		31 - 166				04/28/23 07:11	05/01/23 18:00	1
Nitrobenzene-d5 (Surr)	75		37 - 147				04/28/23 07:11	05/01/23 18:00	1
Phenol-d5	85		30 - 153				04/28/23 07:11	05/01/23 18:00	1
Terphenyl-d14 (Surr)	84		42 - 157				04/28/23 07:11	05/01/23 18:00	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.1	0.21	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Arsenic	8.0		0.55	0.19	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Barium	64		0.55	0.062	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Beryllium	0.84		0.22	0.051	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Boron	11		2.7	0.25	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Cadmium	0.22	B	0.11	0.020	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Calcium	59000		55	9.3	mg/Kg	✳	04/25/23 09:47	05/02/23 19:08	5
Chromium	16		0.55	0.27	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Cobalt	13		0.27	0.072	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Copper	21		0.55	0.15	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Iron	21000	B	11	5.7	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Lead	15		0.27	0.13	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Magnesium	27000		5.5	2.7	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Manganese	490		0.55	0.079	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Nickel	31		0.55	0.16	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Potassium	2400		27	9.7	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Selenium	<0.55		0.55	0.32	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Silver	0.33		0.27	0.070	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Sodium	440	B	55	8.1	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Thallium	<0.55		0.55	0.27	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Vanadium	20		0.27	0.064	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1
Zinc	68		1.1	0.48	mg/Kg	✳	04/25/23 09:47	05/01/23 20:58	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:32	05/01/23 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:32	05/01/23 18:12	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:12	1
Iron	<0.40		0.40	0.20	mg/L		04/26/23 17:32	05/01/23 18:12	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B163-2

Lab Sample ID: 500-232585-2

Date Collected: 04/19/23 09:20

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 85.3

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0095		0.0075	0.0075	mg/L		04/26/23 17:32	05/01/23 18:12	1
Manganese	0.95		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:12	1
Nickel	0.011	J	0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:12	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12		0.050	0.010	mg/L		04/26/23 17:33	04/27/23 21:11	1
Barium	0.86		0.50	0.050	mg/L		04/26/23 17:33	04/27/23 21:11	1
Beryllium	0.013		0.0040	0.0040	mg/L		04/26/23 17:33	04/27/23 21:11	1
Boron	0.21		0.10	0.050	mg/L		04/26/23 17:33	04/27/23 21:11	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		04/26/23 17:33	04/27/23 21:11	1
Calcium	69		2.5	0.50	mg/L		04/26/23 17:33	04/27/23 21:11	1
Chromium	0.21		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:11	1
Cobalt	0.075		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:11	1
Iron	270		0.40	0.20	mg/L		04/26/23 17:33	04/27/23 21:11	1
Lead	0.16		0.0075	0.0075	mg/L		04/26/23 17:33	04/27/23 21:11	1
Manganese	1.3		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:11	1
Nickel	0.27		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:11	1
Potassium	46		2.5	0.50	mg/L		04/26/23 17:33	04/27/23 21:11	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:33	04/27/23 21:11	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:11	1
Zinc	0.78		0.50	0.020	mg/L		04/26/23 17:33	04/27/23 21:11	1

Method: SW846 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		04/26/23 17:32	04/28/23 17:25	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:33	04/27/23 15:17	1
Thallium	0.0038		0.0020	0.0020	mg/L		04/26/23 17:33	04/27/23 15:17	1

Method: SW846 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		05/01/23 12:30	05/02/23 12:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0097	mg/Kg	⊛	04/28/23 17:20	05/01/23 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	⊛	04/24/23 09:24	04/24/23 13:18	1
pH (SW846 9045D)	9.0		0.2	0.2	SU			04/24/23 20:01	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B163-3

Lab Sample ID: 500-232585-3

Date Collected: 04/19/23 09:40

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 84.4

Method: SW846 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	✳	04/20/23 17:38	04/21/23 14:54	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Acetone	0.014	J	0.018	0.0079	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Toluene	0.00060	J	0.0018	0.00046	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	✳	04/20/23 17:38	04/21/23 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	04/20/23 17:38	04/21/23 14:54	1
4-Bromofluorobenzene (Surr)	91		75 - 131	04/20/23 17:38	04/21/23 14:54	1
Dibromofluoromethane	101		75 - 126	04/20/23 17:38	04/21/23 14:54	1
Toluene-d8 (Surr)	88		75 - 124	04/20/23 17:38	04/21/23 14:54	1

Method: SW846 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	✳	04/28/23 07:11	05/01/23 16:20	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B163-3

Lab Sample ID: 500-232585-3

Date Collected: 04/19/23 09:40

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 84.4

Method: SW846 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	0.088	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
2-Methylnaphthalene	<0.077		0.077	0.0071	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Benzo[a]anthracene	0.025	J	0.038	0.0052	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Benzo[a]pyrene	0.053		0.038	0.0074	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Benzo[b]fluoranthene	0.055		0.038	0.0083	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Benzo[g,h,i]perylene	0.017	J	0.038	0.012	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Bis(2-ethylhexyl) phthalate	0.14	J	0.19	0.070	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Carbazole	<0.19		0.19	0.096	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Chrysene	0.019	J	0.038	0.010	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Fluoranthene	0.038		0.038	0.0071	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✳	04/28/23 07:11	05/01/23 16:20	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B163-3

Lab Sample ID: 500-232585-3

Date Collected: 04/19/23 09:40

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 84.4

Method: SW846 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		0.038	0.010	mg/Kg	✱	04/28/23 07:11	05/01/23 16:20	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✱	04/28/23 07:11	05/01/23 16:20	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	✱	04/28/23 07:11	05/01/23 16:20	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	✱	04/28/23 07:11	05/01/23 16:20	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	✱	04/28/23 07:11	05/01/23 16:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✱	04/28/23 07:11	05/01/23 16:20	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	✱	04/28/23 07:11	05/01/23 16:20	1
Phenanthrene	0.019	J	0.038	0.0054	mg/Kg	✱	04/28/23 07:11	05/01/23 16:20	1
Phenol	<0.19		0.19	0.085	mg/Kg	✱	04/28/23 07:11	05/01/23 16:20	1
Pyrene	0.027	J	0.038	0.0076	mg/Kg	✱	04/28/23 07:11	05/01/23 16:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		31 - 143				04/28/23 07:11	05/01/23 16:20	1
2-Fluorobiphenyl	60		43 - 145				04/28/23 07:11	05/01/23 16:20	1
2-Fluorophenol	59		31 - 166				04/28/23 07:11	05/01/23 16:20	1
Nitrobenzene-d5 (Surr)	60		37 - 147				04/28/23 07:11	05/01/23 16:20	1
Phenol-d5	62		30 - 153				04/28/23 07:11	05/01/23 16:20	1
Terphenyl-d14 (Surr)	61		42 - 157				04/28/23 07:11	05/01/23 16:20	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.1	0.22	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Arsenic	8.4		0.57	0.20	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Barium	67		0.57	0.065	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Beryllium	0.85		0.23	0.054	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Boron	10		2.9	0.27	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Cadmium	0.21	B	0.11	0.021	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Calcium	49000		57	9.7	mg/Kg	✱	04/25/23 09:47	05/02/23 19:17	5
Chromium	17		0.57	0.28	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Cobalt	13		0.29	0.075	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Copper	21		0.57	0.16	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Iron	21000	B	11	6.0	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Lead	17		0.29	0.13	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Magnesium	21000		5.7	2.8	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Manganese	430		0.57	0.083	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Nickel	31		0.57	0.17	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Potassium	2500		29	10	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Selenium	0.34	J	0.57	0.34	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Silver	0.34		0.29	0.074	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Sodium	420	B	57	8.5	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Thallium	<0.57		0.57	0.29	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Vanadium	22		0.29	0.068	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1
Zinc	71		1.1	0.50	mg/Kg	✱	04/25/23 09:47	05/01/23 21:01	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:32	05/01/23 19:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:32	05/01/23 19:14	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 19:14	1
Iron	<0.40		0.40	0.20	mg/L		04/26/23 17:32	05/01/23 19:14	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B163-3

Lab Sample ID: 500-232585-3

Date Collected: 04/19/23 09:40

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 84.4

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.055		0.038	0.038	mg/L		05/03/23 17:45	05/04/23 14:46	5
Manganese	3.7		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 19:14	1
Nickel	0.037		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 19:14	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.10		0.050	0.010	mg/L		04/26/23 17:33	04/27/23 21:14	1
Barium	0.71		0.50	0.050	mg/L		04/26/23 17:33	04/27/23 21:14	1
Beryllium	0.011		0.0040	0.0040	mg/L		04/26/23 17:33	04/27/23 21:14	1
Boron	0.18		0.10	0.050	mg/L		04/26/23 17:33	04/27/23 21:14	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		04/26/23 17:33	04/27/23 21:14	1
Calcium	68		2.5	0.50	mg/L		04/26/23 17:33	04/27/23 21:14	1
Chromium	0.18		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:14	1
Cobalt	0.066		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:14	1
Iron	230		0.40	0.20	mg/L		04/26/23 17:33	04/27/23 21:14	1
Lead	0.12		0.0075	0.0075	mg/L		04/26/23 17:33	04/27/23 21:14	1
Manganese	1.1		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:14	1
Nickel	0.23		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:14	1
Potassium	39		2.5	0.50	mg/L		04/26/23 17:33	04/27/23 21:14	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:33	04/27/23 21:14	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:14	1
Zinc	0.64		0.50	0.020	mg/L		04/26/23 17:33	04/27/23 21:14	1

Method: SW846 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		04/26/23 17:32	04/28/23 18:12	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:33	04/27/23 15:19	1
Thallium	0.0033		0.0020	0.0020	mg/L		04/26/23 17:33	04/27/23 15:19	1

Method: SW846 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		05/01/23 12:30	05/02/23 12:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.019	0.0099	mg/Kg	⊛	04/28/23 17:20	05/01/23 10:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25	F1	0.25	0.12	mg/Kg	⊛	04/25/23 08:02	04/25/23 09:34	1
pH (SW846 9045D)	8.8		0.2	0.2	SU			04/24/23 20:06	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B164

Lab Sample ID: 500-232585-4

Date Collected: 04/19/23 10:00

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 82.9

Method: SW846 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	✱	04/20/23 17:38	04/21/23 15:19	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Acetone	<0.017		0.017	0.0075	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Toluene	0.00061	J	0.0017	0.00044	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	✱	04/20/23 17:38	04/21/23 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	04/20/23 17:38	04/21/23 15:19	1
4-Bromofluorobenzene (Surr)	130		75 - 131	04/20/23 17:38	04/21/23 15:19	1
Dibromofluoromethane	99		75 - 126	04/20/23 17:38	04/21/23 15:19	1
Toluene-d8 (Surr)	100		75 - 124	04/20/23 17:38	04/21/23 15:19	1

Method: SW846 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	✱	04/28/23 07:11	05/01/23 16:46	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✱	04/28/23 07:11	05/01/23 16:46	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	✱	04/28/23 07:11	05/01/23 16:46	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✱	04/28/23 07:11	05/01/23 16:46	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✱	04/28/23 07:11	05/01/23 16:46	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B164

Lab Sample ID: 500-232585-4

Date Collected: 04/19/23 10:00

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 82.9

Method: SW846 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	✳	04/28/23 07:11	05/01/23 16:46	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
2-Methylnaphthalene	0.014	J	0.080	0.0073	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Acenaphthylene	0.0073	J	0.039	0.0052	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Anthracene	0.015	J	0.039	0.0066	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Benzo[a]anthracene	0.11		0.039	0.0053	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Benzo[a]pyrene	0.15		0.039	0.0077	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Benzo[b]fluoranthene	0.20		0.039	0.0085	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Benzo[g,h,i]perylene	0.16		0.039	0.013	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Benzo[k]fluoranthene	0.067		0.039	0.012	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Bis(2-ethylhexyl) phthalate	0.17	J	0.20	0.072	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Carbazole	<0.20		0.20	0.099	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Chrysene	0.15		0.039	0.011	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Dibenz(a,h)anthracene	0.063		0.039	0.0076	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Fluoranthene	0.25		0.039	0.0073	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Fluorene	0.0086	J	0.039	0.0056	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B164

Lab Sample ID: 500-232585-4

Date Collected: 04/19/23 10:00

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 82.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.27		0.039	0.010	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Naphthalene	0.014	J	0.039	0.0061	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Phenanthrene	0.13		0.039	0.0055	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Phenol	<0.20		0.20	0.088	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Pyrene	0.21		0.039	0.0079	mg/Kg	✳	04/28/23 07:11	05/01/23 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	84		31 - 143				04/28/23 07:11	05/01/23 16:46	1
2-Fluorobiphenyl	94		43 - 145				04/28/23 07:11	05/01/23 16:46	1
2-Fluorophenol	87		31 - 166				04/28/23 07:11	05/01/23 16:46	1
Nitrobenzene-d5 (Surr)	90		37 - 147				04/28/23 07:11	05/01/23 16:46	1
Phenol-d5	91		30 - 153				04/28/23 07:11	05/01/23 16:46	1
Terphenyl-d14 (Surr)	98		42 - 157				04/28/23 07:11	05/01/23 16:46	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.2	0.22	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Arsenic	6.6		0.58	0.20	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Barium	65		0.58	0.066	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Beryllium	0.83		0.23	0.054	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Boron	12		2.9	0.27	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Cadmium	0.29	B	0.12	0.021	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Calcium	64000		58	9.8	mg/Kg	✳	04/25/23 09:47	05/02/23 19:20	5
Chromium	20		0.58	0.28	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Cobalt	10		0.29	0.075	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Copper	27		0.58	0.16	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Iron	21000	B	12	6.0	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Lead	23		0.29	0.13	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Magnesium	26000		5.8	2.9	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Manganese	380		0.58	0.083	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Nickel	32		0.58	0.17	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Potassium	2600		29	10	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Selenium	<0.58		0.58	0.34	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Silver	0.36		0.29	0.074	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Sodium	1000	B	58	8.5	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Thallium	<0.58		0.58	0.29	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Vanadium	22		0.29	0.068	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1
Zinc	140		1.2	0.51	mg/Kg	✳	04/25/23 09:47	05/01/23 21:05	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:32	05/01/23 19:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:32	05/01/23 19:17	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 19:17	1
Iron	<0.40		0.40	0.20	mg/L		04/26/23 17:32	05/01/23 19:17	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B164

Lab Sample ID: 500-232585-4

Date Collected: 04/19/23 10:00

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 82.9

Method: SW846 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		05/03/23 17:45	05/04/23 14:16	1
Manganese	4.3		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 19:17	1
Nickel	0.040		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 19:17	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12		0.050	0.010	mg/L		04/26/23 17:33	04/27/23 21:17	1
Barium	0.83		0.50	0.050	mg/L		04/26/23 17:33	04/27/23 21:17	1
Beryllium	0.013		0.0040	0.0040	mg/L		04/26/23 17:33	04/27/23 21:17	1
Boron	0.24		0.10	0.050	mg/L		04/26/23 17:33	04/27/23 21:17	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		04/26/23 17:33	04/27/23 21:17	1
Calcium	73		2.5	0.50	mg/L		04/26/23 17:33	04/27/23 21:17	1
Chromium	0.22		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:17	1
Cobalt	0.083		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:17	1
Iron	270		0.40	0.20	mg/L		04/26/23 17:33	04/27/23 21:17	1
Lead	0.32		0.0075	0.0075	mg/L		04/26/23 17:33	04/27/23 21:17	1
Manganese	1.3		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:17	1
Nickel	0.29		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:17	1
Potassium	49		2.5	0.50	mg/L		04/26/23 17:33	04/27/23 21:17	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:33	04/27/23 21:17	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:17	1
Zinc	1.2		0.50	0.020	mg/L		04/26/23 17:33	04/27/23 21:17	1

Method: SW846 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		04/26/23 17:32	04/28/23 18:15	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:33	04/27/23 15:21	1
Thallium	0.0034		0.0020	0.0020	mg/L		04/26/23 17:33	04/27/23 15:21	1

Method: SW846 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		05/01/23 12:30	05/02/23 12:24	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0093	mg/Kg	⊛	04/28/23 17:20	05/01/23 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.29		0.29	0.14	mg/Kg	⊛	04/25/23 08:05	04/25/23 09:39	1
pH (SW846 9045D)	9.1		0.2	0.2	SU			04/24/23 20:11	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B165

Lab Sample ID: 500-232585-5

Date Collected: 04/19/23 10:20

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 82.7

Method: SW846 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	✱	04/20/23 17:38	04/21/23 15:45	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Acetone	0.011	J	0.018	0.0079	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Toluene	0.00066	J	0.0018	0.00046	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	✱	04/20/23 17:38	04/21/23 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	04/20/23 17:38	04/21/23 15:45	1
4-Bromofluorobenzene (Surr)	104		75 - 131	04/20/23 17:38	04/21/23 15:45	1
Dibromofluoromethane	99		75 - 126	04/20/23 17:38	04/21/23 15:45	1
Toluene-d8 (Surr)	89		75 - 124	04/20/23 17:38	04/21/23 15:45	1

Method: SW846 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	✱	04/28/23 07:11	05/01/23 17:10	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✱	04/28/23 07:11	05/01/23 17:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	04/28/23 07:11	05/01/23 17:10	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✱	04/28/23 07:11	05/01/23 17:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	✱	04/28/23 07:11	05/01/23 17:10	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B165

Lab Sample ID: 500-232585-5

Date Collected: 04/19/23 10:20

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 82.7

Method: SW846 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	✳	04/28/23 07:11	05/01/23 17:10	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Anthracene	0.011	J	0.039	0.0065	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Benzo[a]anthracene	0.048		0.039	0.0053	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Benzo[a]pyrene	0.089		0.039	0.0076	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Benzo[b]fluoranthene	0.11		0.039	0.0084	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Benzo[g,h,i]perylene	0.076		0.039	0.013	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Benzo[k]fluoranthene	0.028	J	0.039	0.012	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Bis(2-ethylhexyl) phthalate	0.16	J	0.20	0.071	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Carbazole	<0.20		0.20	0.098	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Chrysene	0.066		0.039	0.011	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Fluoranthene	0.091		0.039	0.0072	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B165

Lab Sample ID: 500-232585-5

Date Collected: 04/19/23 10:20

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 82.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.11		0.039	0.010	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Phenanthrene	0.044		0.039	0.0054	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Phenol	<0.20		0.20	0.087	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Pyrene	0.073		0.039	0.0078	mg/Kg	✳	04/28/23 07:11	05/01/23 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		31 - 143				04/28/23 07:11	05/01/23 17:10	1
2-Fluorobiphenyl	82		43 - 145				04/28/23 07:11	05/01/23 17:10	1
2-Fluorophenol	82		31 - 166				04/28/23 07:11	05/01/23 17:10	1
Nitrobenzene-d5 (Surr)	79		37 - 147				04/28/23 07:11	05/01/23 17:10	1
Phenol-d5	83		30 - 153				04/28/23 07:11	05/01/23 17:10	1
Terphenyl-d14 (Surr)	84		42 - 157				04/28/23 07:11	05/01/23 17:10	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.2	0.23	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Arsenic	7.5		0.58	0.20	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Barium	53		0.58	0.066	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Beryllium	0.86		0.23	0.054	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Boron	13		2.9	0.27	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Cadmium	0.24	B	0.12	0.021	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Calcium	51000		58	9.9	mg/Kg	✳	04/25/23 09:47	05/02/23 19:23	5
Chromium	19		0.58	0.29	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Cobalt	12		0.29	0.076	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Copper	23		0.58	0.16	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Iron	22000	B	12	6.0	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Lead	42		0.29	0.13	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Magnesium	23000		5.8	2.9	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Manganese	400		0.58	0.084	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Nickel	34		0.58	0.17	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Potassium	3100		29	10	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Selenium	0.38	J	0.58	0.34	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Silver	0.37		0.29	0.075	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Sodium	1900	B	58	8.6	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Thallium	0.29	J	0.58	0.29	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Vanadium	21		0.29	0.069	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1
Zinc	120		1.2	0.51	mg/Kg	✳	04/25/23 09:47	05/01/23 21:08	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:32	05/01/23 19:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:32	05/01/23 19:21	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 19:21	1
Iron	<0.40		0.40	0.20	mg/L		04/26/23 17:32	05/01/23 19:21	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B165

Lab Sample ID: 500-232585-5

Date Collected: 04/19/23 10:20

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 82.7

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.14		0.038	0.038	mg/L		05/03/23 17:45	05/04/23 14:53	5
Manganese	5.2		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 19:21	1
Nickel	0.066		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 19:21	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12		0.050	0.010	mg/L		04/26/23 17:33	04/27/23 21:21	1
Barium	0.69		0.50	0.050	mg/L		04/26/23 17:33	04/27/23 21:21	1
Beryllium	0.014		0.0040	0.0040	mg/L		04/26/23 17:33	04/27/23 21:21	1
Boron	0.27		0.10	0.050	mg/L		04/26/23 17:33	04/27/23 21:21	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		04/26/23 17:33	04/27/23 21:21	1
Calcium	73		2.5	0.50	mg/L		04/26/23 17:33	04/27/23 21:21	1
Chromium	0.24		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:21	1
Cobalt	0.091		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:21	1
Iron	280		0.40	0.20	mg/L		04/26/23 17:33	04/27/23 21:21	1
Lead	0.37		0.0075	0.0075	mg/L		04/26/23 17:33	04/27/23 21:21	1
Manganese	1.3		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:21	1
Nickel	0.32		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:21	1
Potassium	56		2.5	0.50	mg/L		04/26/23 17:33	04/27/23 21:21	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:33	04/27/23 21:21	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:21	1
Zinc	1.4		0.50	0.020	mg/L		04/26/23 17:33	04/27/23 21:21	1

Method: SW846 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		04/26/23 17:32	04/28/23 18:17	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:33	04/27/23 15:23	1
Thallium	0.0037		0.0020	0.0020	mg/L		04/26/23 17:33	04/27/23 15:23	1

Method: SW846 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		05/01/23 12:30	05/02/23 12:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.019	0.010	mg/Kg	⊛	04/28/23 17:20	05/01/23 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.29		0.29	0.14	mg/Kg	⊛	04/25/23 08:06	04/25/23 09:40	1
pH (SW846 9045D)	9.0		0.2	0.2	SU			04/24/23 20:13	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B167

Lab Sample ID: 500-232585-7

Date Collected: 04/19/23 11:00

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 83.9

Method: SW846 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	✱	04/20/23 17:38	04/21/23 16:35	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Acetone	0.0079	J	0.017	0.0075	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Toluene	0.00048	J	0.0017	0.00044	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	✱	04/20/23 17:38	04/21/23 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	04/20/23 17:38	04/21/23 16:35	1
4-Bromofluorobenzene (Surr)	93		75 - 131	04/20/23 17:38	04/21/23 16:35	1
Dibromofluoromethane	98		75 - 126	04/20/23 17:38	04/21/23 16:35	1
Toluene-d8 (Surr)	87		75 - 124	04/20/23 17:38	04/21/23 16:35	1

Method: SW846 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	✱	04/28/23 07:11	05/01/23 18:25	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	✱	04/28/23 07:11	05/01/23 18:25	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	04/28/23 07:11	05/01/23 18:25	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✱	04/28/23 07:11	05/01/23 18:25	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	✱	04/28/23 07:11	05/01/23 18:25	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B167

Lab Sample ID: 500-232585-7

Date Collected: 04/19/23 11:00

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 83.9

Method: SW846 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	✳	04/28/23 07:11	05/01/23 18:25	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
2-Methylnaphthalene	0.010	J	0.078	0.0071	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Acenaphthene	0.029	J	0.039	0.0070	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Acenaphthylene	0.0056	J	0.039	0.0051	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Anthracene	0.069		0.039	0.0065	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Benzo[a]anthracene	0.28		0.039	0.0052	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Benzo[a]pyrene	0.30		0.039	0.0075	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Benzo[b]fluoranthene	0.36		0.039	0.0084	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Benzo[g,h,i]perylene	0.22		0.039	0.013	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Benzo[k]fluoranthene	0.14		0.039	0.011	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Bis(2-ethylhexyl) phthalate	0.18	J	0.20	0.071	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Carbazole	<0.20		0.20	0.097	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Chrysene	0.32		0.039	0.011	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Dibenz(a,h)anthracene	0.073		0.039	0.0075	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Fluoranthene	0.64		0.039	0.0072	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Fluorene	0.023	J	0.039	0.0055	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B167

Lab Sample ID: 500-232585-7

Date Collected: 04/19/23 11:00

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 83.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.36		0.039	0.010	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Naphthalene	0.016	J	0.039	0.0060	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Phenanthrene	0.34		0.039	0.0054	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Phenol	<0.20		0.20	0.086	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Pyrene	0.51		0.039	0.0077	mg/Kg	✳	04/28/23 07:11	05/01/23 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		31 - 143				04/28/23 07:11	05/01/23 18:25	1
2-Fluorobiphenyl	76		43 - 145				04/28/23 07:11	05/01/23 18:25	1
2-Fluorophenol	75		31 - 166				04/28/23 07:11	05/01/23 18:25	1
Nitrobenzene-d5 (Surr)	75		37 - 147				04/28/23 07:11	05/01/23 18:25	1
Phenol-d5	77		30 - 153				04/28/23 07:11	05/01/23 18:25	1
Terphenyl-d14 (Surr)	81		42 - 157				04/28/23 07:11	05/01/23 18:25	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.2	0.22	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Arsenic	9.0		0.58	0.20	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Barium	79		2.9	0.33	mg/Kg	✳	04/25/23 09:47	05/02/23 19:30	5
Beryllium	0.63		0.23	0.054	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Boron	8.3		2.9	0.27	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Cadmium	0.44	B	0.12	0.021	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Calcium	95000		58	9.8	mg/Kg	✳	04/25/23 09:47	05/02/23 19:30	5
Chromium	13		0.58	0.29	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Cobalt	8.3		0.29	0.076	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Copper	25		0.58	0.16	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Iron	22000	B	58	30	mg/Kg	✳	04/25/23 09:47	05/02/23 19:30	5
Lead	30		0.29	0.13	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Magnesium	50000		29	14	mg/Kg	✳	04/25/23 09:47	05/02/23 19:30	5
Manganese	530		0.58	0.084	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Nickel	22		0.58	0.17	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Potassium	1300		29	10	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Selenium	<0.58		0.58	0.34	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Silver	0.25	J	0.29	0.074	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Sodium	1400	B	58	8.5	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Thallium	<0.58		0.58	0.29	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Vanadium	17		0.29	0.068	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1
Zinc	190		1.2	0.51	mg/Kg	✳	04/25/23 09:47	05/01/23 21:15	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:32	05/01/23 18:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:32	05/01/23 18:16	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:16	1
Iron	<0.40		0.40	0.20	mg/L		04/26/23 17:32	05/01/23 18:16	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B167

Lab Sample ID: 500-232585-7

Date Collected: 04/19/23 11:00

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 83.9

Method: SW846 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		04/26/23 17:32	05/01/23 18:16	1
Manganese	0.65		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:16	1
Nickel	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:16	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.086		0.050	0.010	mg/L		04/26/23 17:33	04/27/23 21:28	1
Barium	0.74		0.50	0.050	mg/L		04/26/23 17:33	04/27/23 21:28	1
Beryllium	0.0090		0.0040	0.0040	mg/L		04/26/23 17:33	04/27/23 21:28	1
Boron	0.13		0.10	0.050	mg/L		04/26/23 17:33	04/27/23 21:28	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		04/26/23 17:33	04/27/23 21:28	1
Calcium	37		2.5	0.50	mg/L		04/26/23 17:33	04/27/23 21:28	1
Chromium	0.17		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:28	1
Cobalt	0.049		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:28	1
Iron	210		0.40	0.20	mg/L		04/26/23 17:33	04/27/23 21:28	1
Lead	0.15		0.0075	0.0075	mg/L		04/26/23 17:33	04/27/23 21:28	1
Manganese	1.1		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:28	1
Nickel	0.18		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:28	1
Potassium	23		2.5	0.50	mg/L		04/26/23 17:33	04/27/23 21:28	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:33	04/27/23 21:28	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:28	1
Zinc	1.2		0.50	0.020	mg/L		04/26/23 17:33	04/27/23 21:28	1

Method: SW846 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		04/26/23 17:32	04/28/23 17:27	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:33	04/27/23 15:27	1
Thallium	0.0039		0.0020	0.0020	mg/L		04/26/23 17:33	04/27/23 15:27	1

Method: SW846 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		05/01/23 12:30	05/02/23 12:31	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0094	mg/Kg	⊛	04/28/23 17:20	05/01/23 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25	0.12	mg/Kg	⊛	04/25/23 08:08	04/25/23 09:57	1
pH (SW846 9045D)	9.0		0.2	0.2	SU			04/24/23 20:18	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B158-1

Lab Sample ID: 500-232585-11

Date Collected: 04/19/23 12:20

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 84.5

Method: SW846 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	✱	04/20/23 17:38	04/21/23 18:17	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Acetone	<0.017		0.017	0.0075	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	✱	04/20/23 17:38	04/21/23 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	04/20/23 17:38	04/21/23 18:17	1
4-Bromofluorobenzene (Surr)	98		75 - 131	04/20/23 17:38	04/21/23 18:17	1
Dibromofluoromethane	101		75 - 126	04/20/23 17:38	04/21/23 18:17	1
Toluene-d8 (Surr)	88		75 - 124	04/20/23 17:38	04/21/23 18:17	1

Method: SW846 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	✱	04/28/23 07:11	05/01/23 21:20	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	✱	04/28/23 07:11	05/01/23 21:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✱	04/28/23 07:11	05/01/23 21:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✱	04/28/23 07:11	05/01/23 21:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✱	04/28/23 07:11	05/01/23 21:20	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B158-1

Lab Sample ID: 500-232585-11

Date Collected: 04/19/23 12:20

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 84.5

Method: SW846 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	✳	04/28/23 07:11	05/01/23 21:20	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Anthracene	0.0068	J	0.038	0.0064	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Benzo[a]anthracene	0.035	J	0.038	0.0051	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Benzo[a]pyrene	0.065		0.038	0.0074	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Benzo[b]fluoranthene	0.072		0.038	0.0083	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Benzo[g,h,i]perylene	0.030	J	0.038	0.012	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Benzo[k]fluoranthene	0.017	J	0.038	0.011	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Carbazole	<0.19		0.19	0.096	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Chrysene	0.030	J	0.038	0.010	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Fluoranthene	0.049		0.038	0.0071	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B158-1

Lab Sample ID: 500-232585-11

Date Collected: 04/19/23 12:20

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 84.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.052		0.038	0.0099	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Isophorone	<0.19		0.19	0.043	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Phenanthrene	0.033	J	0.038	0.0053	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Phenol	<0.19		0.19	0.085	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Pyrene	0.047		0.038	0.0076	mg/Kg	✳	04/28/23 07:11	05/01/23 21:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	82		31 - 143				04/28/23 07:11	05/01/23 21:20	1
2-Fluorobiphenyl	86		43 - 145				04/28/23 07:11	05/01/23 21:20	1
2-Fluorophenol	88		31 - 166				04/28/23 07:11	05/01/23 21:20	1
Nitrobenzene-d5 (Surr)	82		37 - 147				04/28/23 07:11	05/01/23 21:20	1
Phenol-d5	90		30 - 153				04/28/23 07:11	05/01/23 21:20	1
Terphenyl-d14 (Surr)	100		42 - 157				04/28/23 07:11	05/01/23 21:20	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.1	0.22	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Arsenic	6.1		0.57	0.19	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Barium	79		2.8	0.32	mg/Kg	✳	04/25/23 09:47	05/02/23 19:36	5
Beryllium	0.72		0.23	0.053	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Boron	10		2.8	0.26	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Cadmium	0.27	B	0.11	0.020	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Calcium	69000		57	9.6	mg/Kg	✳	04/25/23 09:47	05/02/23 19:36	5
Chromium	17		0.57	0.28	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Cobalt	9.9		0.28	0.074	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Copper	21		0.57	0.16	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Iron	20000	B	57	30	mg/Kg	✳	04/25/23 09:47	05/02/23 19:36	5
Lead	24		0.28	0.13	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Magnesium	39000		28	14	mg/Kg	✳	04/25/23 09:47	05/02/23 19:36	5
Manganese	450		0.57	0.082	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Nickel	24		0.57	0.17	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Potassium	1900		28	10	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Selenium	<0.57		0.57	0.33	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Silver	0.31		0.28	0.073	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Sodium	1700	B	57	8.4	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Thallium	<0.57		0.57	0.28	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Vanadium	20		0.28	0.067	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1
Zinc	91		1.1	0.50	mg/Kg	✳	04/25/23 09:47	05/01/23 21:36	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:32	05/01/23 19:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:32	05/01/23 19:44	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 19:44	1
Iron	0.28	J	0.40	0.20	mg/L		04/26/23 17:32	05/01/23 19:44	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B158-1

Lab Sample ID: 500-232585-11

Date Collected: 04/19/23 12:20

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 84.5

Method: SW846 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		05/03/23 17:46	05/04/23 12:56	1
Manganese	4.9		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 19:44	1
Nickel	0.056		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 19:44	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.098		0.050	0.010	mg/L		04/26/23 17:33	04/27/23 21:41	1
Barium	0.91		0.50	0.050	mg/L		04/26/23 17:33	04/27/23 21:41	1
Beryllium	0.011		0.0040	0.0040	mg/L		04/26/23 17:33	04/27/23 21:41	1
Boron	0.21		0.10	0.050	mg/L		04/26/23 17:33	04/27/23 21:41	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		04/26/23 17:33	04/27/23 21:41	1
Calcium	60		2.5	0.50	mg/L		04/26/23 17:33	04/27/23 21:41	1
Chromium	0.21		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:41	1
Cobalt	0.075		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:41	1
Iron	230		0.40	0.20	mg/L		04/26/23 17:33	04/27/23 21:41	1
Lead	0.21		0.0075	0.0075	mg/L		04/26/23 17:33	04/27/23 21:41	1
Manganese	1.3		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:41	1
Nickel	0.25		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:41	1
Potassium	40		2.5	0.50	mg/L		04/26/23 17:33	04/27/23 21:41	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:33	04/27/23 21:41	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:33	04/27/23 21:41	1
Zinc	1.2		0.50	0.020	mg/L		04/26/23 17:33	04/27/23 21:41	1

Method: SW846 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		04/26/23 17:32	04/28/23 18:21	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:33	04/27/23 15:40	1
Thallium	0.0042		0.0020	0.0020	mg/L		04/26/23 17:33	04/27/23 15:40	1

Method: SW846 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		05/01/23 12:30	05/02/23 12:39	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.010	mg/Kg	⊛	04/28/23 17:20	05/01/23 10:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25	0.12	mg/Kg	⊛	04/25/23 08:12	04/25/23 10:04	1
pH (SW846 9045D)	8.6		0.2	0.2	SU			04/24/23 20:28	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B158-2

Lab Sample ID: 500-232585-12

Date Collected: 04/19/23 12:40

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 82.1

Method: SW846 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	0.00062	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Acetone	<0.019		0.019	0.0081	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Bromomethane	<0.0046		0.0046	0.0018	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Carbon disulfide	<0.0046		0.0046	0.00097	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	✱	04/20/23 17:38	04/21/23 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	04/20/23 17:38	04/21/23 18:43	1
4-Bromofluorobenzene (Surr)	90		75 - 131	04/20/23 17:38	04/21/23 18:43	1
Dibromofluoromethane	98		75 - 126	04/20/23 17:38	04/21/23 18:43	1
Toluene-d8 (Surr)	87		75 - 124	04/20/23 17:38	04/21/23 18:43	1

Method: SW846 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	✱	04/28/23 07:11	05/01/23 21:45	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✱	04/28/23 07:11	05/01/23 21:45	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	04/28/23 07:11	05/01/23 21:45	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✱	04/28/23 07:11	05/01/23 21:45	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	✱	04/28/23 07:11	05/01/23 21:45	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B158-2

Lab Sample ID: 500-232585-12

Date Collected: 04/19/23 12:40

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 82.1

Method: SW846 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	✳	04/28/23 07:11	05/01/23 21:45	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Benzo[a]anthracene	0.011	J	0.039	0.0053	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Bis(2-ethylhexyl) phthalate	0.15	J	0.20	0.071	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Carbazole	<0.20		0.20	0.098	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Chrysene	<0.039		0.039	0.011	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B158-2

Lab Sample ID: 500-232585-12

Date Collected: 04/19/23 12:40

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 82.1

Method: SW846 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	✳	04/28/23 07:11	05/01/23 21:45	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Phenol	<0.20		0.20	0.087	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	✳	04/28/23 07:11	05/01/23 21:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	39		31 - 143				04/28/23 07:11	05/01/23 21:45	1
2-Fluorobiphenyl	45		43 - 145				04/28/23 07:11	05/01/23 21:45	1
2-Fluorophenol	46		31 - 166				04/28/23 07:11	05/01/23 21:45	1
Nitrobenzene-d5 (Surr)	44		37 - 147				04/28/23 07:11	05/01/23 21:45	1
Phenol-d5	48		30 - 153				04/28/23 07:11	05/01/23 21:45	1
Terphenyl-d14 (Surr)	50		42 - 157				04/28/23 07:11	05/01/23 21:45	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.2	0.23	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Arsenic	9.0		0.58	0.20	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Barium	100		0.58	0.067	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Beryllium	0.87		0.23	0.055	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Boron	7.8		2.9	0.27	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Cadmium	0.26	B	0.12	0.021	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Calcium	28000		12	2.0	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Chromium	17		0.58	0.29	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Cobalt	13		0.29	0.077	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Copper	23		0.58	0.16	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Iron	22000	B	12	6.1	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Lead	22		0.29	0.13	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Magnesium	15000		5.8	2.9	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Manganese	510		0.58	0.085	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Nickel	29		0.58	0.17	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Potassium	2100		29	10	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Selenium	0.35	J	0.58	0.34	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Silver	0.45		0.29	0.075	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Sodium	660	B	58	8.6	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Thallium	<0.58		0.58	0.29	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Vanadium	25		0.29	0.069	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1
Zinc	91		1.2	0.51	mg/Kg	✳	04/25/23 09:47	05/01/23 21:40	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:32	05/01/23 18:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:32	05/01/23 18:29	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:29	1
Iron	<0.40		0.40	0.20	mg/L		04/26/23 17:32	05/01/23 18:29	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B158-2

Lab Sample ID: 500-232585-12

Date Collected: 04/19/23 12:40

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 82.1

Method: SW846 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		04/26/23 17:32	05/01/23 18:29	1
Manganese	0.27		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:29	1
Nickel	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:29	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.050	0.010	mg/L		04/26/23 17:33	04/28/23 17:49	1
Barium	1.3		0.50	0.050	mg/L		04/26/23 17:33	04/28/23 17:49	1
Beryllium	0.012		0.0040	0.0040	mg/L		04/26/23 17:33	04/28/23 17:49	1
Boron	0.15		0.10	0.050	mg/L		04/26/23 17:33	04/28/23 17:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/26/23 17:33	04/28/23 17:49	1
Calcium	40		2.5	0.50	mg/L		04/26/23 17:33	04/28/23 17:49	1
Chromium	0.21		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 17:49	1
Cobalt	0.060		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 17:49	1
Iron	270		0.40	0.20	mg/L		04/26/23 17:33	04/28/23 17:49	1
Lead	0.11		0.0075	0.0075	mg/L		04/26/23 17:33	04/28/23 17:49	1
Manganese	1.3		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 17:49	1
Nickel	0.24		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 17:49	1
Potassium	33		2.5	0.50	mg/L		04/26/23 17:33	04/28/23 17:49	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:33	04/28/23 17:49	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 17:49	1
Zinc	0.82		0.50	0.020	mg/L		04/26/23 17:33	04/28/23 17:49	1

Method: SW846 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		04/26/23 17:32	04/28/23 17:36	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:33	04/27/23 15:42	1
Thallium	0.0044		0.0020	0.0020	mg/L		04/26/23 17:33	04/27/23 15:42	1

Method: SW846 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		05/01/23 12:30	05/02/23 12:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.020	0.010	mg/Kg	✱	04/28/23 17:20	05/01/23 10:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26	0.13	mg/Kg	✱	04/25/23 08:13	04/25/23 10:05	1
pH (SW846 9045D)	8.2		0.2	0.2	SU			04/24/23 20:33	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B158-3

Lab Sample ID: 500-232585-13

Date Collected: 04/19/23 13:00

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 80.9

Method: SW846 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	☆	04/20/23 17:38	04/21/23 19:08	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
1,2-Dichloroethane	<0.0050		0.0050	0.0015	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Acetone	<0.020		0.020	0.0086	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1
Xylenes, Total	<0.0040		0.0040	0.00063	mg/Kg	☆	04/20/23 17:38	04/21/23 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	04/20/23 17:38	04/21/23 19:08	1
4-Bromofluorobenzene (Surr)	91		75 - 131	04/20/23 17:38	04/21/23 19:08	1
Dibromofluoromethane	103		75 - 126	04/20/23 17:38	04/21/23 19:08	1
Toluene-d8 (Surr)	87		75 - 124	04/20/23 17:38	04/21/23 19:08	1

Method: SW846 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	☆	04/28/23 07:11	05/01/23 22:10	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☆	04/28/23 07:11	05/01/23 22:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☆	04/28/23 07:11	05/01/23 22:10	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☆	04/28/23 07:11	05/01/23 22:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☆	04/28/23 07:11	05/01/23 22:10	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B158-3

Lab Sample ID: 500-232585-13

Date Collected: 04/19/23 13:00

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 80.9

Method: SW846 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	✳	04/28/23 07:11	05/01/23 22:10	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
2-Methylnaphthalene	<0.081		0.081	0.0073	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Benzo[a]anthracene	0.024	J	0.040	0.0054	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Benzo[a]pyrene	0.055		0.040	0.0077	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Benzo[b]fluoranthene	0.061		0.040	0.0086	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Benzo[g,h,i]perylene	0.020	J	0.040	0.013	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Bis(2-ethylhexyl) phthalate	0.16	J	0.20	0.073	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Carbazole	<0.20		0.20	0.10	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Chrysene	0.016	J	0.040	0.011	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Fluoranthene	0.027	J	0.040	0.0074	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B158-3

Lab Sample ID: 500-232585-13

Date Collected: 04/19/23 13:00

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 80.9

Method: SW846 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		0.040	0.010	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Phenanthrene	0.014	J	0.040	0.0056	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Phenol	<0.20		0.20	0.089	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Pyrene	0.023	J	0.040	0.0079	mg/Kg	✳	04/28/23 07:11	05/01/23 22:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		31 - 143				04/28/23 07:11	05/01/23 22:10	1
2-Fluorobiphenyl	74		43 - 145				04/28/23 07:11	05/01/23 22:10	1
2-Fluorophenol	74		31 - 166				04/28/23 07:11	05/01/23 22:10	1
Nitrobenzene-d5 (Surr)	70		37 - 147				04/28/23 07:11	05/01/23 22:10	1
Phenol-d5	80		30 - 153				04/28/23 07:11	05/01/23 22:10	1
Terphenyl-d14 (Surr)	88		42 - 157				04/28/23 07:11	05/01/23 22:10	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.23	J	1.1	0.22	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Arsenic	8.5		0.57	0.20	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Barium	110		0.57	0.065	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Beryllium	0.81		0.23	0.053	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Boron	5.2		2.9	0.27	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Cadmium	0.24	B	0.11	0.021	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Calcium	19000		11	1.9	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Chromium	15		0.57	0.28	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Cobalt	10		0.29	0.075	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Copper	19		0.57	0.16	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Iron	21000	B	11	5.9	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Lead	20		0.29	0.13	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Magnesium	11000		5.7	2.8	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Manganese	550		0.57	0.083	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Nickel	23		0.57	0.17	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Potassium	1500		29	10	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Selenium	0.37	J	0.57	0.34	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Silver	0.39		0.29	0.074	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Sodium	530	B	57	8.5	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Thallium	0.31	J	0.57	0.29	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Vanadium	24		0.29	0.067	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1
Zinc	73		1.1	0.50	mg/Kg	✳	04/25/23 09:47	05/01/23 21:43	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:32	05/01/23 18:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:32	05/01/23 18:32	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:32	1
Iron	<0.40		0.40	0.20	mg/L		04/26/23 17:32	05/01/23 18:32	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B158-3

Lab Sample ID: 500-232585-13

Date Collected: 04/19/23 13:00

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 80.9

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.8		0.0075	0.0075	mg/L		04/26/23 17:32	05/01/23 18:32	1
Manganese	0.26		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:32	1
Nickel	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:32	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.060		0.050	0.010	mg/L		04/26/23 17:33	04/28/23 17:53	1
Barium	0.79		0.50	0.050	mg/L		04/26/23 17:33	04/28/23 17:53	1
Beryllium	0.0065		0.0040	0.0040	mg/L		04/26/23 17:33	04/28/23 17:53	1
Boron	0.10		0.10	0.050	mg/L		04/26/23 17:33	04/28/23 17:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/26/23 17:33	04/28/23 17:53	1
Calcium	31		2.5	0.50	mg/L		04/26/23 17:33	04/28/23 17:53	1
Chromium	0.12		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 17:53	1
Cobalt	0.032		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 17:53	1
Iron	140		0.40	0.20	mg/L		04/26/23 17:33	04/28/23 17:53	1
Lead	0.075		0.0075	0.0075	mg/L		04/26/23 17:33	04/28/23 17:53	1
Manganese	0.95		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 17:53	1
Nickel	0.12		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 17:53	1
Potassium	19		2.5	0.50	mg/L		04/26/23 17:33	04/28/23 17:53	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:33	04/28/23 17:53	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 17:53	1
Zinc	0.46 J		0.50	0.020	mg/L		04/26/23 17:33	04/28/23 17:53	1

Method: SW846 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		04/26/23 17:32	04/28/23 17:38	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:33	04/27/23 15:44	1
Thallium	0.0026		0.0020	0.0020	mg/L		04/26/23 17:33	04/27/23 15:44	1

Method: SW846 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		05/01/23 12:30	05/02/23 12:48	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.010	mg/Kg	✧	04/28/23 17:20	05/01/23 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26	F1 F2	0.26	0.13	mg/Kg	✧	04/25/23 08:14	04/25/23 10:07	1
pH (SW846 9045D)	7.8		0.2	0.2	SU			04/24/23 20:36	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B159

Lab Sample ID: 500-232585-14

Date Collected: 04/19/23 13:20

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 80.6

Method: SW846 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	✱	04/20/23 17:38	04/21/23 19:33	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00071	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Acetone	<0.020		0.020	0.0088	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	✱	04/20/23 17:38	04/21/23 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	04/20/23 17:38	04/21/23 19:33	1
4-Bromofluorobenzene (Surr)	97		75 - 131	04/20/23 17:38	04/21/23 19:33	1
Dibromofluoromethane	96		75 - 126	04/20/23 17:38	04/21/23 19:33	1
Toluene-d8 (Surr)	90		75 - 124	04/20/23 17:38	04/21/23 19:33	1

Method: SW846 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	✱	04/28/23 07:11	05/01/23 14:16	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	✱	04/28/23 07:11	05/01/23 14:16	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	✱	04/28/23 07:11	05/01/23 14:16	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	✱	04/28/23 07:11	05/01/23 14:16	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	✱	04/28/23 07:11	05/01/23 14:16	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B159

Lab Sample ID: 500-232585-14

Date Collected: 04/19/23 13:20

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 80.6

Method: SW846 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	✳	04/28/23 07:11	05/01/23 14:16	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Anthracene	0.0097	J	0.041	0.0068	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Benzo[a]anthracene	0.054		0.041	0.0055	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Benzo[a]pyrene	0.094		0.041	0.0079	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Benzo[b]fluoranthene	0.10		0.041	0.0088	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Benzo[g,h,i]perylene	0.066		0.041	0.013	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Benzo[k]fluoranthene	0.032	J	0.041	0.012	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Bis(2-ethylhexyl) phthalate	0.16	J	0.21	0.075	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Carbazole	<0.21		0.21	0.10	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Chrysene	0.062		0.041	0.011	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Dibenz(a,h)anthracene	0.048		0.041	0.0079	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Fluoranthene	0.10		0.041	0.0076	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Hexachlorocyclopentadiene	<0.82		0.82	0.24	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B159

Lab Sample ID: 500-232585-14

Date Collected: 04/19/23 13:20

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 80.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.11		0.041	0.011	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Isophorone	<0.21		0.21	0.046	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Pentachlorophenol	<0.82		0.82	0.66	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Phenanthrene	0.045		0.041	0.0057	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Phenol	<0.21		0.21	0.091	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Pyrene	0.090		0.041	0.0081	mg/Kg	✳	04/28/23 07:11	05/01/23 14:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	39		31 - 143				04/28/23 07:11	05/01/23 14:16	1
2-Fluorobiphenyl	39	S1-	43 - 145				04/28/23 07:11	05/01/23 14:16	1
2-Fluorophenol	35		31 - 166				04/28/23 07:11	05/01/23 14:16	1
Nitrobenzene-d5 (Surr)	38		37 - 147				04/28/23 07:11	05/01/23 14:16	1
Phenol-d5	37		30 - 153				04/28/23 07:11	05/01/23 14:16	1
Terphenyl-d14 (Surr)	46		42 - 157				04/28/23 07:11	05/01/23 14:16	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.2	0.23	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Arsenic	6.4		0.59	0.20	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Barium	140		0.59	0.067	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Beryllium	0.83		0.24	0.055	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Boron	5.4		2.9	0.27	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Cadmium	0.49	B	0.12	0.021	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Calcium	5400		12	2.0	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Chromium	17		0.59	0.29	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Cobalt	9.7		0.29	0.077	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Copper	21		0.59	0.16	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Iron	18000	B	12	6.1	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Lead	43		0.29	0.14	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Magnesium	3500		5.9	2.9	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Manganese	520		0.59	0.085	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Nickel	20		0.59	0.17	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Potassium	1500		29	10	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Selenium	0.60		0.59	0.35	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Silver	0.41		0.29	0.076	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Sodium	1800	B	59	8.7	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Thallium	<0.59		0.59	0.29	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Vanadium	27		0.29	0.069	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1
Zinc	160		1.2	0.52	mg/Kg	✳	04/25/23 09:47	05/01/23 21:47	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:32	05/01/23 18:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:32	05/01/23 18:35	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:35	1
Iron	0.39	J	0.40	0.20	mg/L		04/26/23 17:32	05/01/23 18:35	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B159

Lab Sample ID: 500-232585-14

Date Collected: 04/19/23 13:20

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 80.6

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0090		0.0075	0.0075	mg/L		04/26/23 17:32	05/01/23 18:35	1
Manganese	0.26		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:35	1
Nickel	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:35	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.051		0.050	0.010	mg/L		04/26/23 17:33	04/28/23 17:56	1
Barium	1.5		0.50	0.050	mg/L		04/26/23 17:33	04/28/23 17:56	1
Beryllium	0.010		0.0040	0.0040	mg/L		04/26/23 17:33	04/28/23 17:56	1
Boron	0.12		0.10	0.050	mg/L		04/26/23 17:33	04/28/23 17:56	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		04/26/23 17:33	04/28/23 17:56	1
Calcium	39		2.5	0.50	mg/L		04/26/23 17:33	04/28/23 17:56	1
Chromium	0.21		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 17:56	1
Cobalt	0.036		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 17:56	1
Iron	220		0.40	0.20	mg/L		04/26/23 17:33	04/28/23 17:56	1
Lead	0.16		0.0075	0.0075	mg/L		04/26/23 17:33	04/28/23 17:56	1
Manganese	1.1		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 17:56	1
Nickel	0.15		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 17:56	1
Potassium	25		2.5	0.50	mg/L		04/26/23 17:33	04/28/23 17:56	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:33	04/28/23 17:56	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 17:56	1
Zinc	1.2		0.50	0.020	mg/L		04/26/23 17:33	04/28/23 17:56	1

Method: SW846 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		04/26/23 17:32	04/28/23 17:45	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:33	04/27/23 15:46	1
Thallium	0.0031		0.0020	0.0020	mg/L		04/26/23 17:33	04/27/23 15:46	1

Method: SW846 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		05/01/23 12:30	05/02/23 12:50	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0096	mg/Kg	⊛	04/28/23 17:20	05/01/23 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	⊛	04/25/23 08:18	04/25/23 10:12	1
pH (SW846 9045D)	8.1		0.2	0.2	SU			04/24/23 20:38	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B160

Lab Sample ID: 500-232585-15

Date Collected: 04/19/23 13:40

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 81.1

Method: SW846 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	☆	04/20/23 17:38	04/21/23 19:59	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Acetone	<0.019		0.019	0.0083	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☆	04/20/23 17:38	04/21/23 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	04/20/23 17:38	04/21/23 19:59	1
4-Bromofluorobenzene (Surr)	93		75 - 131	04/20/23 17:38	04/21/23 19:59	1
Dibromofluoromethane	98		75 - 126	04/20/23 17:38	04/21/23 19:59	1
Toluene-d8 (Surr)	87		75 - 124	04/20/23 17:38	04/21/23 19:59	1

Method: SW846 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	☆	05/03/23 07:12	05/04/23 11:47	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☆	05/03/23 07:12	05/04/23 11:47	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☆	05/03/23 07:12	05/04/23 11:47	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☆	05/03/23 07:12	05/04/23 11:47	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☆	05/03/23 07:12	05/04/23 11:47	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B160

Lab Sample ID: 500-232585-15

Date Collected: 04/19/23 13:40

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 81.1

Method: SW846 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	0.093	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Benzo[a]anthracene	0.042		0.040	0.0055	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Benzo[a]pyrene	0.040		0.040	0.0079	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Benzo[b]fluoranthene	0.058		0.040	0.0088	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Benzo[g,h,i]perylene	0.038 J		0.040	0.013	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Benzo[k]fluoranthene	0.020 J		0.040	0.012	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Chrysene	0.043		0.040	0.011	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Fluoranthene	0.079		0.040	0.0075	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B160

Lab Sample ID: 500-232585-15

Date Collected: 04/19/23 13:40

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 81.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.036	J	0.040	0.011	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Phenanthrene	0.034	J	0.040	0.0057	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Pyrene	0.070		0.040	0.0081	mg/Kg	☼	05/03/23 07:12	05/04/23 11:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		31 - 143				05/03/23 07:12	05/04/23 11:47	1
2-Fluorobiphenyl	52		43 - 145				05/03/23 07:12	05/04/23 11:47	1
2-Fluorophenol	44		31 - 166				05/03/23 07:12	05/04/23 11:47	1
Nitrobenzene-d5 (Surr)	47		37 - 147				05/03/23 07:12	05/04/23 11:47	1
Phenol-d5	48		30 - 153				05/03/23 07:12	05/04/23 11:47	1
Terphenyl-d14 (Surr)	63		42 - 157				05/03/23 07:12	05/04/23 11:47	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.24	J	1.2	0.23	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Arsenic	6.7		0.58	0.20	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Barium	130		0.58	0.067	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Beryllium	0.80		0.23	0.055	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Boron	4.8		2.9	0.27	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Cadmium	0.29	B	0.12	0.021	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Calcium	7900		12	2.0	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Chromium	17		0.58	0.29	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Cobalt	11		0.29	0.076	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Copper	17		0.58	0.16	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Iron	18000	B	12	6.1	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Lead	36		0.29	0.13	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Magnesium	5600		5.8	2.9	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Manganese	590		0.58	0.085	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Nickel	19		0.58	0.17	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Potassium	1400		29	10	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Selenium	0.42	J	0.58	0.34	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Silver	0.37		0.29	0.075	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Sodium	3100	B	58	8.6	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Vanadium	27		0.29	0.069	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1
Zinc	150		1.2	0.51	mg/Kg	☼	04/25/23 09:47	05/01/23 21:50	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:32	05/01/23 18:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:32	05/01/23 18:38	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:38	1
Iron	<0.40		0.40	0.20	mg/L		04/26/23 17:32	05/01/23 18:38	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Client Sample ID: 2233V3-1-B160

Lab Sample ID: 500-232585-15

Date Collected: 04/19/23 13:40

Matrix: Solid

Date Received: 04/20/23 12:30

Percent Solids: 81.1

Method: SW846 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		04/26/23 17:32	05/01/23 18:38	1
Manganese	0.95		0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:38	1
Nickel	0.011	J	0.025	0.010	mg/L		04/26/23 17:32	05/01/23 18:38	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.070		0.050	0.010	mg/L		04/26/23 17:33	04/28/23 18:00	1
Barium	1.4		0.50	0.050	mg/L		04/26/23 17:33	04/28/23 18:00	1
Beryllium	0.012		0.0040	0.0040	mg/L		04/26/23 17:33	04/28/23 18:00	1
Boron	0.13		0.10	0.050	mg/L		04/26/23 17:33	04/28/23 18:00	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		04/26/23 17:33	04/28/23 18:00	1
Calcium	33		2.5	0.50	mg/L		04/26/23 17:33	04/28/23 18:00	1
Chromium	0.24		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 18:00	1
Cobalt	0.044		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 18:00	1
Iron	250		0.40	0.20	mg/L		04/26/23 17:33	04/28/23 18:00	1
Lead	0.34		0.0075	0.0075	mg/L		04/26/23 17:33	04/28/23 18:00	1
Manganese	1.3		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 18:00	1
Nickel	0.18		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 18:00	1
Potassium	30		2.5	0.50	mg/L		04/26/23 17:33	04/28/23 18:00	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:33	04/28/23 18:00	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:33	04/28/23 18:00	1
Zinc	2.9		0.50	0.020	mg/L		04/26/23 17:33	04/28/23 18:00	1

Method: SW846 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		04/26/23 17:32	04/28/23 17:47	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:33	04/27/23 15:48	1
Thallium	0.0037		0.0020	0.0020	mg/L		04/26/23 17:33	04/27/23 15:48	1

Method: SW846 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		05/01/23 12:30	05/02/23 12:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.010	mg/Kg	⊛	04/28/23 17:20	05/01/23 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	⊛	04/25/23 08:19	04/25/23 10:17	1
pH (SW846 9045D)	8.3		0.2	0.2	SU			04/24/23 20:40	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD 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.

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.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
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.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
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
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.

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)

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Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

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QC Association Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

GC/MS VOA

Analysis Batch: 708955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232585-16	2233V3-1-B161	Total/NA	Solid	8260B	709026
500-232585-17	2233V3-1-B162	Total/NA	Solid	8260B	709026
500-232585-18	2233V3-1-B162 Dup	Total/NA	Solid	8260B	709026
500-232585-19	Trip Blank #1	Total/NA	Solid	8260B	709026
MB 500-708955/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-708955/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-708955/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 708958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232585-1	2233V3-1-B163-1	Total/NA	Solid	8260B	709026
500-232585-2	2233V3-1-B163-2	Total/NA	Solid	8260B	709026
500-232585-3	2233V3-1-B163-3	Total/NA	Solid	8260B	709026
500-232585-4	2233V3-1-B164	Total/NA	Solid	8260B	709026
500-232585-5	2233V3-1-B165	Total/NA	Solid	8260B	709026
500-232585-6	2233V3-1-B166	Total/NA	Solid	8260B	709026
500-232585-7	2233V3-1-B167	Total/NA	Solid	8260B	709026
500-232585-8	2233V3-1-B157-1	Total/NA	Solid	8260B	709026
500-232585-9	2233V3-1-B157-2	Total/NA	Solid	8260B	709026
500-232585-10	2233V3-1-B157-3	Total/NA	Solid	8260B	709026
500-232585-11	2233V3-1-B158-1	Total/NA	Solid	8260B	709026
500-232585-12	2233V3-1-B158-2	Total/NA	Solid	8260B	709026
500-232585-13	2233V3-1-B158-3	Total/NA	Solid	8260B	709026
500-232585-14	2233V3-1-B159	Total/NA	Solid	8260B	709026
500-232585-15	2233V3-1-B160	Total/NA	Solid	8260B	709026
MB 500-708958/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-708958/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-708958/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 709026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232585-1	2233V3-1-B163-1	Total/NA	Solid	5035	
500-232585-2	2233V3-1-B163-2	Total/NA	Solid	5035	
500-232585-3	2233V3-1-B163-3	Total/NA	Solid	5035	
500-232585-4	2233V3-1-B164	Total/NA	Solid	5035	
500-232585-5	2233V3-1-B165	Total/NA	Solid	5035	
500-232585-6	2233V3-1-B166	Total/NA	Solid	5035	
500-232585-7	2233V3-1-B167	Total/NA	Solid	5035	
500-232585-8	2233V3-1-B157-1	Total/NA	Solid	5035	
500-232585-9	2233V3-1-B157-2	Total/NA	Solid	5035	
500-232585-10	2233V3-1-B157-3	Total/NA	Solid	5035	
500-232585-11	2233V3-1-B158-1	Total/NA	Solid	5035	
500-232585-12	2233V3-1-B158-2	Total/NA	Solid	5035	
500-232585-13	2233V3-1-B158-3	Total/NA	Solid	5035	
500-232585-14	2233V3-1-B159	Total/NA	Solid	5035	
500-232585-15	2233V3-1-B160	Total/NA	Solid	5035	
500-232585-16	2233V3-1-B161	Total/NA	Solid	5035	
500-232585-17	2233V3-1-B162	Total/NA	Solid	5035	
500-232585-18	2233V3-1-B162 Dup	Total/NA	Solid	5035	
500-232585-19	Trip Blank #1	Total/NA	Solid	5035	

QC Association Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

GC/MS Semi VOA

Prep Batch: 710256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232585-1	2233V3-1-B163-1	Total/NA	Solid	3541	
500-232585-2	2233V3-1-B163-2	Total/NA	Solid	3541	
500-232585-3	2233V3-1-B163-3	Total/NA	Solid	3541	
500-232585-4	2233V3-1-B164	Total/NA	Solid	3541	
500-232585-5	2233V3-1-B165	Total/NA	Solid	3541	
500-232585-6	2233V3-1-B166	Total/NA	Solid	3541	
500-232585-7	2233V3-1-B167	Total/NA	Solid	3541	
500-232585-8	2233V3-1-B157-1	Total/NA	Solid	3541	
500-232585-9	2233V3-1-B157-2	Total/NA	Solid	3541	
500-232585-10	2233V3-1-B157-3	Total/NA	Solid	3541	
500-232585-11	2233V3-1-B158-1	Total/NA	Solid	3541	
500-232585-12	2233V3-1-B158-2	Total/NA	Solid	3541	
500-232585-13	2233V3-1-B158-3	Total/NA	Solid	3541	
500-232585-14	2233V3-1-B159	Total/NA	Solid	3541	
500-232585-16	2233V3-1-B161	Total/NA	Solid	3541	
500-232585-17	2233V3-1-B162	Total/NA	Solid	3541	
500-232585-18	2233V3-1-B162 Dup	Total/NA	Solid	3541	
MB 500-710256/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-710256/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-232585-1 MS	2233V3-1-B163-1	Total/NA	Solid	3541	
500-232585-1 MSD	2233V3-1-B163-1	Total/NA	Solid	3541	

Analysis Batch: 710338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-710256/1-A	Method Blank	Total/NA	Solid	8270D	710256
LCS 500-710256/2-A	Lab Control Sample	Total/NA	Solid	8270D	710256

Analysis Batch: 710600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232585-1	2233V3-1-B163-1	Total/NA	Solid	8270D	710256
500-232585-2	2233V3-1-B163-2	Total/NA	Solid	8270D	710256
500-232585-3	2233V3-1-B163-3	Total/NA	Solid	8270D	710256
500-232585-4	2233V3-1-B164	Total/NA	Solid	8270D	710256
500-232585-5	2233V3-1-B165	Total/NA	Solid	8270D	710256
500-232585-6	2233V3-1-B166	Total/NA	Solid	8270D	710256
500-232585-7	2233V3-1-B167	Total/NA	Solid	8270D	710256
500-232585-8	2233V3-1-B157-1	Total/NA	Solid	8270D	710256
500-232585-9	2233V3-1-B157-2	Total/NA	Solid	8270D	710256
500-232585-10	2233V3-1-B157-3	Total/NA	Solid	8270D	710256
500-232585-11	2233V3-1-B158-1	Total/NA	Solid	8270D	710256
500-232585-12	2233V3-1-B158-2	Total/NA	Solid	8270D	710256
500-232585-13	2233V3-1-B158-3	Total/NA	Solid	8270D	710256
500-232585-14	2233V3-1-B159	Total/NA	Solid	8270D	710256
500-232585-16	2233V3-1-B161	Total/NA	Solid	8270D	710256
500-232585-17	2233V3-1-B162	Total/NA	Solid	8270D	710256
500-232585-18	2233V3-1-B162 Dup	Total/NA	Solid	8270D	710256
500-232585-1 MS	2233V3-1-B163-1	Total/NA	Solid	8270D	710256
500-232585-1 MSD	2233V3-1-B163-1	Total/NA	Solid	8270D	710256

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
 Project/Site: IDOT - AE8-010

Job ID: 500-232585-1

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-23 *


The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com		Laboratory Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email Jodie.Bracken@ET.EurofinsUS.com	Project Name <u>AE8-010A</u> Project No <u>PJB/WO: 195-002/010A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>Jared Weiderts / Kyle Restany</u>	COC No <u>1</u> of <u>2</u> Lab Job No. <u>500-232585</u> Sample Temp: <u>5.4-7.3-7.33</u>
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Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3) run TCLP for that specific RCRA metal
 ** If SPLP result exceeds Class I Standard run TCLP for that specific parameter
 *** If total cyanide exceeds MAC run ASTM D3987 (Neutral Leach) cyanide

ANALYSES

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization		
1	2233V3-1-B163-1	4/19	0900		X	X					X	X	X	X	X			
2	2233V3-1-B163-2	4/19	0920		↓	↓					↓	↓	↓	↓	↓			
3	2233V3-1-B163-3	4/19	0940		↓	↓					↓	↓	↓	↓	↓			
4	2233V3-1-B164	4/19	1000		↓	↓					↓	↓	↓	↓	↓			
5	2233V3-1-B165	4/19	1020		↓	↓					↓	↓	↓	↓	↓			
6	2233V3-1-B166	4/19	1040		↓	↓					↓	↓	↓	↓	↓			
7	2233V3-1-B167	4/19	1100		↓	↓					↓	↓	↓	↓	↓			
8	2233V3-1-B157-1	4/19	1120		↓	↓					↓	↓	↓	↓	↓			
9	2233V3-1-B157-2	4/19	1140		↓	↓					↓	↓	↓	↓	↓			
10	2233V3-1-B157-3	4/19	1200		↓	↓					↓	↓	↓	↓	↓			
11	2233V3-1-B158-1	4/19	1220		↓	↓					↓	↓	↓	↓	↓			

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

Relinquished by <u>Kyle Restany</u>	Date/Time <u>4/19/23</u>	Received by <u>Jared Weiderts</u>	Date/Time <u>4/19/23 1105</u>
Relinquished by <u>Colleen Grey</u>	Date/Time <u>4/20/23 1230</u>	Received by <u>Colleen Grey</u>	Date/Time <u>4/20/23 1230</u>
Relinquished by	Date/Time	Received by	Date/Time



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com					Laboratory Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email Jodie.Bracken@ET EurofinsUS.com					Project Name <u>AE8-010A</u>					COC No <u>2</u> of <u>2</u>																																																																																																																																																																																																																																								
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 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Ms. Colleen Grey
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Generated 5/26/2023 3:54:48 PM Revision 1

JOB DESCRIPTION

IDOT - AE8-010

JOB NUMBER

500-232642-1

Eurofins Chicago

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Revision 1

Authorized for release by
Jodie Bracken, Project Management Assistant II
Jodie.Bracken@et.eurofinsus.com
(708)534-5200

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B182

Lab Sample ID: 500-232642-3

Date Collected: 04/20/23 09:20

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 83.0

Method: SW846 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	✳	04/21/23 17:15	04/25/23 11:56	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00071	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Acetone	<0.020	*+	0.020	0.0088	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Bromomethane	<0.0050	*-	0.0050	0.0019	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Chloroethane	<0.0050	*-	0.0050	0.0015	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Toluene	0.0015	J	0.0020	0.00051	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	✳	04/21/23 17:15	04/25/23 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	04/21/23 17:15	04/25/23 11:56	1
4-Bromofluorobenzene (Surr)	103		75 - 131	04/21/23 17:15	04/25/23 11:56	1
Dibromofluoromethane	114		75 - 126	04/21/23 17:15	04/25/23 11:56	1
Toluene-d8 (Surr)	113		75 - 124	04/21/23 17:15	04/25/23 11:56	1

Method: SW846 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	✳	04/30/23 10:36	05/02/23 16:34	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✳	04/30/23 10:36	05/02/23 16:34	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✳	04/30/23 10:36	05/02/23 16:34	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✳	04/30/23 10:36	05/02/23 16:34	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✳	04/30/23 10:36	05/02/23 16:34	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B182

Lab Sample ID: 500-232642-3

Date Collected: 04/20/23 09:20

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 83.0

Method: SW846 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	☼	04/30/23 10:36	05/02/23 16:34	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
4-Bromophenyl phenyl ether	<0.20	*	0.20	0.052	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
4-Chloro-3-methylphenol	<0.39	*	0.39	0.13	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Di-n-octyl phthalate	<0.20	*	0.20	0.064	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	04/30/23 10:36	05/02/23 16:34	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B182

Lab Sample ID: 500-232642-3

Date Collected: 04/20/23 09:20

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 83.0

Method: SW846 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	✳	04/30/23 10:36	05/02/23 16:34	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✳	04/30/23 10:36	05/02/23 16:34	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	✳	04/30/23 10:36	05/02/23 16:34	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	✳	04/30/23 10:36	05/02/23 16:34	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	✳	04/30/23 10:36	05/02/23 16:34	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	✳	04/30/23 10:36	05/02/23 16:34	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	✳	04/30/23 10:36	05/02/23 16:34	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	✳	04/30/23 10:36	05/02/23 16:34	1
Phenol	<0.20		0.20	0.087	mg/Kg	✳	04/30/23 10:36	05/02/23 16:34	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	✳	04/30/23 10:36	05/02/23 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	55		31 - 143	04/30/23 10:36	05/02/23 16:34	1
2-Fluorobiphenyl	68		43 - 145	04/30/23 10:36	05/02/23 16:34	1
2-Fluorophenol	56		31 - 166	04/30/23 10:36	05/02/23 16:34	1
Nitrobenzene-d5 (Surr)	62		37 - 147	04/30/23 10:36	05/02/23 16:34	1
Phenol-d5	59		30 - 153	04/30/23 10:36	05/02/23 16:34	1
Terphenyl-d14 (Surr)	85		42 - 157	04/30/23 10:36	05/02/23 16:34	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.2	0.23	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Arsenic	8.7		0.58	0.20	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Barium	77	B	0.58	0.066	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Beryllium	0.95	B	0.23	0.054	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Boron	8.3	B	2.9	0.27	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Cadmium	0.11	J B	0.12	0.021	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Calcium	48000		58	9.9	mg/Kg	✳	04/26/23 10:01	05/03/23 00:03	5
Chromium	17		0.58	0.29	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Cobalt	8.1		0.29	0.076	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Copper	24		0.58	0.16	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Iron	24000		12	6.1	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Lead	13		0.29	0.13	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Magnesium	27000		5.8	2.9	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Manganese	280	B	0.58	0.085	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Nickel	20		0.58	0.17	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Potassium	2000		29	10	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Selenium	<0.58		0.58	0.34	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Silver	0.38		0.29	0.075	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Sodium	110		58	8.6	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Thallium	0.46	J	0.58	0.29	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Vanadium	23	B	0.29	0.069	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1
Zinc	74		1.2	0.51	mg/Kg	✳	04/26/23 10:01	05/02/23 01:51	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.35	J	0.40	0.20	mg/L		04/25/23 17:08	04/28/23 23:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/23 17:45	05/05/23 13:23	1
Manganese	0.66		0.025	0.010	mg/L		04/25/23 17:08	04/28/23 23:14	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B182

Lab Sample ID: 500-232642-3

Date Collected: 04/20/23 09:20

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 83.0

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.032	J	0.050	0.010	mg/L		04/25/23 17:10	04/28/23 01:34	1
Barium	0.29	J	0.50	0.050	mg/L		04/25/23 17:10	04/28/23 01:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/25/23 17:10	04/28/23 01:34	1
Boron	0.088	J	0.10	0.050	mg/L		04/25/23 17:10	04/28/23 01:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/25/23 17:10	04/28/23 01:34	1
Calcium	19		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 01:34	1
Chromium	0.063		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 01:34	1
Cobalt	0.013	J	0.025	0.010	mg/L		04/25/23 17:10	04/28/23 01:34	1
Iron	67		0.40	0.20	mg/L		04/25/23 17:10	04/28/23 01:34	1
Lead	0.033		0.0075	0.0075	mg/L		05/03/23 17:47	05/04/23 16:23	1
Manganese	0.20		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 01:34	1
Nickel	0.053		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 01:34	1
Potassium	13		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 01:34	1
Selenium	<0.050		0.050	0.020	mg/L		04/25/23 17:10	04/28/23 01:34	1
Silver	<0.025		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 01:34	1
Zinc	0.19	J	0.50	0.020	mg/L		04/25/23 17:10	04/28/23 01:34	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/25/23 17:10	04/26/23 15:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/25/23 17:10	04/26/23 15:53	1

Method: SW846 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		05/01/23 12:30	05/02/23 11:03	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.0099	mg/Kg	⊛	05/03/23 17:05	05/04/23 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.29		0.29	0.14	mg/Kg	⊛	04/27/23 08:11	04/27/23 10:04	1
pH (SW846 9045D)	8.0		0.2	0.2	SU			04/24/23 20:55	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B181

Lab Sample ID: 500-232642-4

Date Collected: 04/20/23 09:30

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 86.9

Method: SW846 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	0.00062	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00079	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
1,1-Dichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Acetone	<0.019	*+	0.019	0.0081	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Bromomethane	<0.0046	*-	0.0046	0.0017	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Chlorobenzene	<0.0019		0.0019	0.00068	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Chloroethane	<0.0046	*-	0.0046	0.0014	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Toluene	0.0012	J	0.0019	0.00047	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	04/21/23 17:15	04/25/23 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	04/21/23 17:15	04/25/23 12:21	1
4-Bromofluorobenzene (Surr)	110		75 - 131	04/21/23 17:15	04/25/23 12:21	1
Dibromofluoromethane	114		75 - 126	04/21/23 17:15	04/25/23 12:21	1
Toluene-d8 (Surr)	113		75 - 124	04/21/23 17:15	04/25/23 12:21	1

Method: SW846 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	☼	04/30/23 10:36	05/02/23 16:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	04/30/23 10:36	05/02/23 16:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	04/30/23 10:36	05/02/23 16:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	04/30/23 10:36	05/02/23 16:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	04/30/23 10:36	05/02/23 16:59	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B181

Lab Sample ID: 500-232642-4

Date Collected: 04/20/23 09:30

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 86.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
4-Bromophenyl phenyl ether	<0.19	*	0.19	0.050	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
4-Chloro-3-methylphenol	<0.37	*	0.37	0.13	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Carbazole	<0.19		0.19	0.094	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Chrysene	<0.037		0.037	0.010	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Di-n-octyl phthalate	<0.19	*	0.19	0.062	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B181

Lab Sample ID: 500-232642-4

Date Collected: 04/20/23 09:30

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 86.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Phenanthrene	<0.037		0.037	0.0053	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Phenol	<0.19		0.19	0.084	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	✳	04/30/23 10:36	05/02/23 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	45		31 - 143				04/30/23 10:36	05/02/23 16:59	1
2-Fluorobiphenyl	77		43 - 145				04/30/23 10:36	05/02/23 16:59	1
2-Fluorophenol	63		31 - 166				04/30/23 10:36	05/02/23 16:59	1
Nitrobenzene-d5 (Surr)	70		37 - 147				04/30/23 10:36	05/02/23 16:59	1
Phenol-d5	64		30 - 153				04/30/23 10:36	05/02/23 16:59	1
Terphenyl-d14 (Surr)	81		42 - 157				04/30/23 10:36	05/02/23 16:59	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.1	0.21	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Arsenic	9.3		0.54	0.18	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Barium	49	B	0.54	0.061	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Beryllium	0.80	B	0.21	0.050	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Boron	9.3	B	2.7	0.25	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Cadmium	0.29	B	0.11	0.019	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Calcium	68000		54	9.1	mg/Kg	✳	04/26/23 10:01	05/03/23 00:06	5
Chromium	14		0.54	0.26	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Cobalt	12		0.27	0.070	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Copper	23		0.54	0.15	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Iron	22000		11	5.6	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Lead	13		0.27	0.12	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Magnesium	29000		5.4	2.7	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Manganese	440	B	0.54	0.078	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Nickel	28		0.54	0.16	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Potassium	2100		27	9.5	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Selenium	<0.54		0.54	0.31	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Silver	0.27		0.27	0.069	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Sodium	210		54	7.9	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Thallium	0.27	J	0.54	0.27	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Vanadium	18	B	0.27	0.063	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1
Zinc	69		1.1	0.47	mg/Kg	✳	04/26/23 10:01	05/02/23 01:54	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/25/23 17:08	04/29/23 00:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/25/23 17:08	04/29/23 00:26	1
Iron	0.54		0.40	0.20	mg/L		04/25/23 17:08	04/29/23 00:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/09/23 17:10	05/10/23 14:06	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B181

Lab Sample ID: 500-232642-4

Date Collected: 04/20/23 09:30

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 86.9

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.8		0.025	0.010	mg/L		04/25/23 17:08	04/29/23 00:26	1
Nickel	0.029		0.025	0.010	mg/L		04/25/23 17:08	04/29/23 00:26	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.055		0.050	0.010	mg/L		04/25/23 17:10	04/28/23 01:38	1
Barium	0.37	J	0.50	0.050	mg/L		04/25/23 17:10	04/28/23 01:38	1
Beryllium	0.0044		0.0040	0.0040	mg/L		04/25/23 17:10	04/28/23 01:38	1
Boron	0.12		0.10	0.050	mg/L		04/25/23 17:10	04/28/23 01:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/25/23 17:10	04/28/23 01:38	1
Calcium	29		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 01:38	1
Chromium	0.084		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 01:38	1
Cobalt	0.029		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 01:38	1
Iron	100		0.40	0.20	mg/L		04/25/23 17:10	04/28/23 01:38	1
Lead	0.041		0.0075	0.0075	mg/L		05/03/23 17:47	05/04/23 16:26	1
Manganese	0.36		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 01:38	1
Nickel	0.11		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 01:38	1
Potassium	21		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 01:38	1
Selenium	<0.050		0.050	0.020	mg/L		04/25/23 17:10	04/28/23 01:38	1
Silver	<0.025		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 01:38	1
Zinc	0.32	J	0.50	0.020	mg/L		04/25/23 17:10	04/28/23 01:38	1

Method: SW846 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		04/25/23 17:08	04/27/23 19:27	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/25/23 17:10	04/26/23 15:55	1
Thallium	0.0030		0.0020	0.0020	mg/L		04/25/23 17:10	04/26/23 15:55	1

Method: SW846 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		05/01/23 12:30	05/02/23 11:05	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0094	mg/Kg	☆	05/03/23 17:05	05/04/23 09:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26	0.13	mg/Kg	☆	04/27/23 08:12	04/27/23 10:06	1
pH (SW846 9045D)	8.7		0.2	0.2	SU			04/24/23 21:00	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B181 Dup

Lab Sample ID: 500-232642-5

Date Collected: 04/20/23 09:40

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 81.4

Method: SW846 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	0.00068	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00071	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
2-Butanone (MEK)	<0.0051		0.0051	0.0022	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Acetone	<0.020	*+	0.020	0.0088	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Bromomethane	<0.0051	*-	0.0051	0.0019	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Chloroethane	<0.0051	*-	0.0051	0.0015	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Toluene	0.0011	J	0.0020	0.00051	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1
Xylenes, Total	<0.0040		0.0040	0.00065	mg/Kg	✳	04/21/23 17:15	04/25/23 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	126		70 - 134	04/21/23 17:15	04/25/23 12:45	1
4-Bromofluorobenzene (Surr)	103		75 - 131	04/21/23 17:15	04/25/23 12:45	1
Dibromofluoromethane	118		75 - 126	04/21/23 17:15	04/25/23 12:45	1
Toluene-d8 (Surr)	112		75 - 124	04/21/23 17:15	04/25/23 12:45	1

Method: SW846 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	✳	04/30/23 10:36	05/02/23 17:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	✳	04/30/23 10:36	05/02/23 17:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	✳	04/30/23 10:36	05/02/23 17:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	✳	04/30/23 10:36	05/02/23 17:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	✳	04/30/23 10:36	05/02/23 17:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B181 Dup

Lab Sample ID: 500-232642-5

Date Collected: 04/20/23 09:40

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 81.4

Method: SW846 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	☼	04/30/23 10:36	05/02/23 17:24	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
4-Bromophenyl phenyl ether	<0.20	*	0.20	0.053	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
4-Chloro-3-methylphenol	<0.40	*	0.40	0.14	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Di-n-octyl phthalate	<0.20	*	0.20	0.066	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	04/30/23 10:36	05/02/23 17:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B181 Dup

Lab Sample ID: 500-232642-5

Date Collected: 04/20/23 09:40

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 81.4

Method: SW846 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	✳	04/30/23 10:36	05/02/23 17:24	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✳	04/30/23 10:36	05/02/23 17:24	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	✳	04/30/23 10:36	05/02/23 17:24	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	✳	04/30/23 10:36	05/02/23 17:24	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	✳	04/30/23 10:36	05/02/23 17:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	✳	04/30/23 10:36	05/02/23 17:24	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	✳	04/30/23 10:36	05/02/23 17:24	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	✳	04/30/23 10:36	05/02/23 17:24	1
Phenol	<0.20		0.20	0.090	mg/Kg	✳	04/30/23 10:36	05/02/23 17:24	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	✳	04/30/23 10:36	05/02/23 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	32		31 - 143				04/30/23 10:36	05/02/23 17:24	1
2-Fluorobiphenyl	63		43 - 145				04/30/23 10:36	05/02/23 17:24	1
2-Fluorophenol	55		31 - 166				04/30/23 10:36	05/02/23 17:24	1
Nitrobenzene-d5 (Surr)	59		37 - 147				04/30/23 10:36	05/02/23 17:24	1
Phenol-d5	57		30 - 153				04/30/23 10:36	05/02/23 17:24	1
Terphenyl-d14 (Surr)	64		42 - 157				04/30/23 10:36	05/02/23 17:24	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.2	0.23	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Arsenic	10		0.58	0.20	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Barium	110	B	0.58	0.066	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Beryllium	1.1	B	0.23	0.054	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Boron	8.7	B	2.9	0.27	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Cadmium	0.17	B	0.12	0.021	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Calcium	27000		12	2.0	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Chromium	21		0.58	0.29	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Cobalt	11		0.29	0.076	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Copper	28		0.58	0.16	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Iron	28000		12	6.1	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Lead	15		0.29	0.13	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Magnesium	20000		5.8	2.9	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Manganese	420	B	0.58	0.084	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Nickel	30		0.58	0.17	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Potassium	2300		29	10	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Selenium	<0.58		0.58	0.34	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Silver	0.44		0.29	0.075	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Sodium	250		58	8.6	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Thallium	0.55	J	0.58	0.29	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Vanadium	28	B	0.29	0.069	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1
Zinc	78		1.2	0.51	mg/Kg	✳	04/26/23 10:01	05/02/23 02:05	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/25/23 17:08	04/29/23 00:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/25/23 17:08	04/29/23 00:30	1
Iron	0.37	J	0.40	0.20	mg/L		04/25/23 17:08	04/29/23 00:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/09/23 17:10	05/10/23 14:16	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B181 Dup

Lab Sample ID: 500-232642-5

Date Collected: 04/20/23 09:40

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 81.4

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.5		0.025	0.010	mg/L		04/25/23 17:08	04/29/23 00:30	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.054		0.050	0.010	mg/L		04/25/23 17:10	04/28/23 01:48	1
Barium	0.42	J	0.50	0.050	mg/L		04/25/23 17:10	04/28/23 01:48	1
Beryllium	0.0043		0.0040	0.0040	mg/L		04/25/23 17:10	04/28/23 01:48	1
Boron	0.10		0.10	0.050	mg/L		04/25/23 17:10	04/28/23 01:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/25/23 17:10	04/28/23 01:48	1
Calcium	20		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 01:48	1
Chromium	0.083		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 01:48	1
Cobalt	0.019	J	0.025	0.010	mg/L		04/25/23 17:10	04/28/23 01:48	1
Iron	100		0.40	0.20	mg/L		04/25/23 17:10	04/28/23 01:48	1
Lead	0.042		0.0075	0.0075	mg/L		05/03/23 17:47	05/04/23 16:30	1
Manganese	0.35		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 01:48	1
Nickel	0.083		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 01:48	1
Potassium	16		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 01:48	1
Selenium	<0.050		0.050	0.020	mg/L		04/25/23 17:10	04/28/23 01:48	1
Silver	<0.025		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 01:48	1
Zinc	0.26	J	0.50	0.020	mg/L		04/25/23 17:10	04/28/23 01:48	1

Method: SW846 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		04/25/23 17:08	04/27/23 19:29	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/25/23 17:10	04/26/23 15:57	1
Thallium	0.0023		0.0020	0.0020	mg/L		04/25/23 17:10	04/26/23 15:57	1

Method: SW846 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		05/01/23 12:30	05/02/23 11:08	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0096	mg/Kg	☆	05/03/23 17:05	05/04/23 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.29		0.29	0.15	mg/Kg	☆	04/27/23 08:13	04/27/23 10:07	1
pH (SW846 9045D)	8.2		0.2	0.2	SU			04/24/23 21:05	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B142

Lab Sample ID: 500-232642-9

Date Collected: 04/20/23 10:20

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 78.6

Method: SW846 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	0.00069	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00088	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
1,2-Dichloropropane	<0.0020		0.0020	0.00053	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00072	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Acetone	<0.020	*+	0.020	0.0089	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Bromodichloromethane	<0.0020		0.0020	0.00042	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Bromoform	<0.0020		0.0020	0.00060	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Bromomethane	<0.0051	*-	0.0051	0.0019	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Chloroethane	<0.0051	*-	0.0051	0.0015	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Chloromethane	<0.0051		0.0051	0.0021	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00062	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Dibromochloromethane	<0.0020		0.0020	0.00067	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Ethylbenzene	<0.0020		0.0020	0.00098	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Styrene	<0.0020		0.0020	0.00062	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Tetrachloroethene	<0.0020		0.0020	0.00070	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Toluene	0.0017	J	0.0020	0.00052	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00072	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	✳	04/21/23 17:15	04/25/23 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	04/21/23 17:15	04/25/23 14:23	1
4-Bromofluorobenzene (Surr)	112		75 - 131	04/21/23 17:15	04/25/23 14:23	1
Dibromofluoromethane	116		75 - 126	04/21/23 17:15	04/25/23 14:23	1
Toluene-d8 (Surr)	115		75 - 124	04/21/23 17:15	04/25/23 14:23	1

Method: SW846 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	✳	04/30/23 10:36	05/02/23 19:02	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B142

Lab Sample ID: 500-232642-9

Date Collected: 04/20/23 10:20

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 78.6

Method: SW846 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	✳	04/30/23 10:36	05/02/23 19:02	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
4-Bromophenyl phenyl ether	<0.21	*	0.21	0.054	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
4-Chloro-3-methylphenol	<0.41	*	0.41	0.14	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Benzo[a]anthracene	0.041		0.041	0.0055	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Benzo[a]pyrene	0.051		0.041	0.0080	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Benzo[b]fluoranthene	0.058		0.041	0.0089	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Benzo[g,h,i]perylene	0.050		0.041	0.013	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Benzo[k]fluoranthene	0.030	J	0.041	0.012	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Carbazole	<0.21		0.21	0.10	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Chrysene	0.040	J	0.041	0.011	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Di-n-octyl phthalate	<0.21	*	0.21	0.067	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Fluoranthene	0.046		0.041	0.0076	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	✳	04/30/23 10:36	05/02/23 19:02	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B142

Lab Sample ID: 500-232642-9

Date Collected: 04/20/23 10:20

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 78.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.055		0.041	0.011	mg/Kg	☆	04/30/23 10:36	05/02/23 19:02	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☆	04/30/23 10:36	05/02/23 19:02	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☆	04/30/23 10:36	05/02/23 19:02	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☆	04/30/23 10:36	05/02/23 19:02	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☆	04/30/23 10:36	05/02/23 19:02	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☆	04/30/23 10:36	05/02/23 19:02	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☆	04/30/23 10:36	05/02/23 19:02	1
Phenanthrene	0.019	J	0.041	0.0057	mg/Kg	☆	04/30/23 10:36	05/02/23 19:02	1
Phenol	<0.21		0.21	0.092	mg/Kg	☆	04/30/23 10:36	05/02/23 19:02	1
Pyrene	0.054		0.041	0.0082	mg/Kg	☆	04/30/23 10:36	05/02/23 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	38		31 - 143				04/30/23 10:36	05/02/23 19:02	1
2-Fluorobiphenyl	59		43 - 145				04/30/23 10:36	05/02/23 19:02	1
2-Fluorophenol	46		31 - 166				04/30/23 10:36	05/02/23 19:02	1
Nitrobenzene-d5 (Surr)	50		37 - 147				04/30/23 10:36	05/02/23 19:02	1
Phenol-d5	50		30 - 153				04/30/23 10:36	05/02/23 19:02	1
Terphenyl-d14 (Surr)	73		42 - 157				04/30/23 10:36	05/02/23 19:02	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J	1.2	0.24	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Arsenic	7.0		0.62	0.21	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Barium	110	B	0.62	0.071	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Beryllium	0.74	B	0.25	0.058	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Boron	5.2	B	3.1	0.29	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Cadmium	0.42	B	0.12	0.022	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Calcium	3500		12	2.1	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Chromium	14		0.62	0.31	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Cobalt	8.7		0.31	0.081	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Copper	19		0.62	0.17	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Iron	19000		12	6.4	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Lead	41		0.31	0.14	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Magnesium	2800		6.2	3.1	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Manganese	520	B	0.62	0.090	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Nickel	17		0.62	0.18	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Potassium	1400		31	11	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Selenium	<0.62		0.62	0.36	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Silver	0.33		0.31	0.080	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Sodium	2400		62	9.2	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Thallium	0.48	J	0.62	0.31	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Vanadium	21	B	0.31	0.073	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1
Zinc	89		1.2	0.54	mg/Kg	☆	04/26/23 10:01	05/02/23 02:19	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/25/23 17:08	04/28/23 23:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/25/23 17:08	04/28/23 23:30	1
Chromium	<0.025		0.025	0.010	mg/L		04/25/23 17:08	04/28/23 23:30	1
Iron	0.81		0.40	0.20	mg/L		04/25/23 17:08	04/28/23 23:30	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B142

Lab Sample ID: 500-232642-9

Date Collected: 04/20/23 10:20

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 78.6

Method: SW846 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		05/03/23 17:45	05/05/23 13:26	1
Manganese	0.35		0.025	0.010	mg/L		04/25/23 17:08	04/28/23 23:30	1
Nickel	<0.025		0.025	0.010	mg/L		04/25/23 17:08	04/28/23 23:30	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.060		0.050	0.010	mg/L		04/25/23 17:10	04/28/23 02:02	1
Barium	1.1		0.50	0.050	mg/L		04/25/23 17:10	04/28/23 02:02	1
Beryllium	0.0096		0.0040	0.0040	mg/L		04/25/23 17:10	04/28/23 02:02	1
Boron	0.14		0.10	0.050	mg/L		04/25/23 17:10	04/28/23 02:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/25/23 17:10	04/28/23 02:02	1
Calcium	36		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 02:02	1
Chromium	0.23		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:02	1
Cobalt	0.046		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:02	1
Iron	280		0.40	0.20	mg/L		04/25/23 17:10	04/28/23 02:02	1
Lead	0.41	B	0.0075	0.0075	mg/L		04/25/23 17:10	04/28/23 02:02	1
Manganese	1.3		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:02	1
Nickel	0.15		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:02	1
Potassium	27		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 02:02	1
Selenium	<0.050		0.050	0.020	mg/L		04/25/23 17:10	04/28/23 02:02	1
Silver	<0.025		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:02	1
Zinc	1.2		0.50	0.020	mg/L		04/25/23 17:10	04/28/23 02:02	1

Method: SW846 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		04/25/23 17:08	04/27/23 19:03	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/25/23 17:10	04/26/23 16:09	1
Thallium	0.0041		0.0020	0.0020	mg/L		04/25/23 17:10	04/26/23 16:09	1

Method: SW846 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		05/01/23 12:30	05/02/23 11:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.020	0.010	mg/Kg	✱	05/03/23 17:05	05/04/23 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.14	mg/Kg	✱	04/27/23 08:20	04/27/23 10:21	1
pH (SW846 9045D)	7.9		0.2	0.2	SU			04/24/23 21:15	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B143

Lab Sample ID: 500-232642-10

Date Collected: 04/20/23 10:30

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 80.6

Method: SW846 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	☼	04/21/23 17:15	04/25/23 14:47	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00068	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00091	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
1,1-Dichloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
1,2-Dichloroethane	<0.0053		0.0053	0.0017	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00074	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
2-Butanone (MEK)	<0.0053		0.0053	0.0024	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Acetone	0.022	+	0.021	0.0092	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Bromomethane	<0.0053	*	0.0053	0.0020	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Carbon tetrachloride	<0.0021		0.0021	0.00061	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Chlorobenzene	<0.0021		0.0021	0.00078	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Chloroethane	<0.0053	*	0.0053	0.0016	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Tetrachloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Toluene	0.0012	J	0.0021	0.00054	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00094	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Trichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Vinyl chloride	<0.0021		0.0021	0.00094	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1
Xylenes, Total	<0.0042		0.0042	0.00068	mg/Kg	☼	04/21/23 17:15	04/25/23 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	04/21/23 17:15	04/25/23 14:47	1
4-Bromofluorobenzene (Surr)	105		75 - 131	04/21/23 17:15	04/25/23 14:47	1
Dibromofluoromethane	118		75 - 126	04/21/23 17:15	04/25/23 14:47	1
Toluene-d8 (Surr)	112		75 - 124	04/21/23 17:15	04/25/23 14:47	1

Method: SW846 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	☼	04/30/23 10:36	05/02/23 19:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B143

Lab Sample ID: 500-232642-10

Date Collected: 04/20/23 10:30

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 80.6

Method: SW846 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	☼	04/30/23 10:36	05/02/23 19:27	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
4-Bromophenyl phenyl ether	<0.20	*	0.20	0.053	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
4-Chloro-3-methylphenol	<0.40	*	0.40	0.14	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Di-n-octyl phthalate	<0.20	*	0.20	0.065	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	04/30/23 10:36	05/02/23 19:27	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B143

Lab Sample ID: 500-232642-10

Date Collected: 04/20/23 10:30

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 80.6

Method: SW846 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	✳	04/30/23 10:36	05/02/23 19:27	1
Isophorone	<0.20		0.20	0.045	mg/Kg	✳	04/30/23 10:36	05/02/23 19:27	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	✳	04/30/23 10:36	05/02/23 19:27	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	✳	04/30/23 10:36	05/02/23 19:27	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	✳	04/30/23 10:36	05/02/23 19:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✳	04/30/23 10:36	05/02/23 19:27	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	✳	04/30/23 10:36	05/02/23 19:27	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	✳	04/30/23 10:36	05/02/23 19:27	1
Phenol	<0.20		0.20	0.089	mg/Kg	✳	04/30/23 10:36	05/02/23 19:27	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	✳	04/30/23 10:36	05/02/23 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		31 - 143	04/30/23 10:36	05/02/23 19:27	1
2-Fluorobiphenyl	90		43 - 145	04/30/23 10:36	05/02/23 19:27	1
2-Fluorophenol	73		31 - 166	04/30/23 10:36	05/02/23 19:27	1
Nitrobenzene-d5 (Surr)	82		37 - 147	04/30/23 10:36	05/02/23 19:27	1
Phenol-d5	75		30 - 153	04/30/23 10:36	05/02/23 19:27	1
Terphenyl-d14 (Surr)	103		42 - 157	04/30/23 10:36	05/02/23 19:27	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.1	0.22	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Arsenic	8.0		0.57	0.20	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Barium	82	B	0.57	0.065	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Beryllium	0.79	B	0.23	0.053	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Boron	5.3	B	2.9	0.27	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Cadmium	0.21	B	0.11	0.021	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Calcium	22000		11	1.9	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Chromium	15		0.57	0.28	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Cobalt	11		0.29	0.075	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Copper	15		0.57	0.16	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Iron	21000		11	5.9	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Lead	13		0.29	0.13	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Magnesium	13000		5.7	2.8	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Manganese	330	B	0.57	0.083	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Nickel	24		0.57	0.17	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Potassium	1300		29	10	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Selenium	<0.57		0.57	0.34	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Silver	0.46		0.29	0.074	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Sodium	2100		57	8.5	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Thallium	0.48	J	0.57	0.29	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Vanadium	23	B	0.29	0.067	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1
Zinc	69		1.1	0.50	mg/Kg	✳	04/26/23 10:01	05/02/23 02:22	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/25/23 17:08	04/28/23 23:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/25/23 17:08	04/28/23 23:34	1
Chromium	<0.025		0.025	0.010	mg/L		04/25/23 17:08	04/28/23 23:34	1
Iron	0.35	J	0.40	0.20	mg/L		04/25/23 17:08	04/28/23 23:34	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B143

Lab Sample ID: 500-232642-10

Date Collected: 04/20/23 10:30

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 80.6

Method: SW846 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		05/03/23 17:45	05/05/23 13:29	1
Manganese	8.4		0.025	0.010	mg/L		04/25/23 17:08	04/28/23 23:34	1
Nickel	0.021	J	0.025	0.010	mg/L		04/25/23 17:08	04/28/23 23:34	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.050	0.010	mg/L		04/25/23 17:10	04/28/23 02:06	1
Barium	0.84		0.50	0.050	mg/L		04/25/23 17:10	04/28/23 02:06	1
Beryllium	0.0086		0.0040	0.0040	mg/L		04/25/23 17:10	04/28/23 02:06	1
Boron	0.12		0.10	0.050	mg/L		04/25/23 17:10	04/28/23 02:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/25/23 17:10	04/28/23 02:06	1
Calcium	34		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 02:06	1
Chromium	0.16		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:06	1
Cobalt	0.087		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:06	1
Iron	220		0.40	0.20	mg/L		04/25/23 17:10	04/28/23 02:06	1
Lead	0.13	B	0.0075	0.0075	mg/L		04/25/23 17:10	04/28/23 02:06	1
Manganese	2.5		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:06	1
Nickel	0.21		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:06	1
Potassium	20		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 02:06	1
Selenium	<0.050		0.050	0.020	mg/L		04/25/23 17:10	04/28/23 02:06	1
Silver	<0.025		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:06	1
Zinc	0.71		0.50	0.020	mg/L		04/25/23 17:10	04/28/23 02:06	1

Method: SW846 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		04/25/23 17:08	04/27/23 19:05	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/25/23 17:10	04/26/23 16:11	1
Thallium	0.0032		0.0020	0.0020	mg/L		04/25/23 17:10	04/26/23 16:11	1

Method: SW846 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		05/01/23 12:30	05/02/23 11:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.020	0.010	mg/Kg	✱	05/03/23 17:05	05/04/23 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.29		0.29	0.15	mg/Kg	✱	04/27/23 08:21	04/27/23 10:23	1
pH (SW846 9045D)	7.7		0.2	0.2	SU			04/24/23 21:17	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B151-1

Lab Sample ID: 500-232642-14

Date Collected: 04/20/23 11:10

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 77.7

Method: SW846 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	✳	04/21/23 17:15	04/25/23 16:25	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Acetone	<0.019	*+	0.019	0.0082	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Bromomethane	<0.0047	*-	0.0047	0.0018	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Chloroethane	<0.0047	*-	0.0047	0.0014	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Toluene	0.0029		0.0019	0.00048	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	✳	04/21/23 17:15	04/25/23 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		70 - 134	04/21/23 17:15	04/25/23 16:25	1
4-Bromofluorobenzene (Surr)	98		75 - 131	04/21/23 17:15	04/25/23 16:25	1
Dibromofluoromethane	121		75 - 126	04/21/23 17:15	04/25/23 16:25	1
Toluene-d8 (Surr)	110		75 - 124	04/21/23 17:15	04/25/23 16:25	1

Method: SW846 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	✳	04/30/23 10:36	05/04/23 14:45	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	✳	04/30/23 10:36	05/04/23 14:45	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	✳	04/30/23 10:36	05/04/23 14:45	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	✳	04/30/23 10:36	05/04/23 14:45	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	✳	04/30/23 10:36	05/04/23 14:45	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B151-1

Lab Sample ID: 500-232642-14

Date Collected: 04/20/23 11:10

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 77.7

Method: SW846 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	☼	04/30/23 10:36	05/04/23 14:45	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
3,3'-Dichlorobenzidine	<0.21	*3	0.21	0.058	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
4-Bromophenyl phenyl ether	<0.21	*-	0.21	0.054	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
4-Chloro-3-methylphenol	<0.41	*-	0.41	0.14	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Benzo[a]anthracene	<0.041	*3	0.041	0.0056	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Bis(2-ethylhexyl) phthalate	<0.21	*3	0.21	0.075	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Butyl benzyl phthalate	<0.21	*3	0.21	0.079	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Chrysene	<0.041	*3	0.041	0.011	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Di-n-octyl phthalate	<0.21	*-	0.21	0.067	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B151-1

Lab Sample ID: 500-232642-14

Date Collected: 04/20/23 11:10

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 77.7

Method: SW846 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	☼	04/30/23 10:36	05/04/23 14:45	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Pyrene	<0.041	*3	0.041	0.0082	mg/Kg	☼	04/30/23 10:36	05/04/23 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		31 - 143				04/30/23 10:36	05/04/23 14:45	1
2-Fluorobiphenyl	63		43 - 145				04/30/23 10:36	05/04/23 14:45	1
2-Fluorophenol	61		31 - 166				04/30/23 10:36	05/04/23 14:45	1
Nitrobenzene-d5 (Surr)	58		37 - 147				04/30/23 10:36	05/04/23 14:45	1
Phenol-d5	59		30 - 153				04/30/23 10:36	05/04/23 14:45	1
Terphenyl-d14 (Surr)	83	*3	42 - 157				04/30/23 10:36	05/04/23 14:45	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	J	1.3	0.25	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Arsenic	12		0.64	0.22	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Barium	160	B	0.64	0.073	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Beryllium	1.1	B	0.26	0.060	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Boron	7.0	B	3.2	0.30	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Cadmium	0.17	B	0.13	0.023	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Calcium	13000		13	2.2	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Chromium	20		0.64	0.32	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Cobalt	14		0.32	0.084	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Copper	30		0.64	0.18	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Iron	29000		13	6.6	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Lead	18		0.32	0.15	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Magnesium	11000		6.4	3.2	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Manganese	590	B	0.64	0.092	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Nickel	33		0.64	0.19	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Potassium	1900		32	11	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Selenium	<0.64		0.64	0.37	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Silver	0.50		0.32	0.082	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Sodium	150		64	9.4	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Thallium	0.59	J	0.64	0.32	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Vanadium	31	B	0.32	0.075	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1
Zinc	87		1.3	0.56	mg/Kg	☼	04/26/23 10:01	05/02/23 02:36	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.50		0.40	0.20	mg/L		04/25/23 17:08	04/28/23 23:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/23 17:45	05/05/23 13:48	1
Manganese	0.80		0.025	0.010	mg/L		04/25/23 17:08	04/28/23 23:47	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B151-1

Lab Sample ID: 500-232642-14

Date Collected: 04/20/23 11:10

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 77.7

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.037	J	0.050	0.010	mg/L		04/25/23 17:10	04/28/23 02:19	1
Barium	0.37	J	0.50	0.050	mg/L		04/25/23 17:10	04/28/23 02:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/25/23 17:10	04/28/23 02:19	1
Boron	0.082	J	0.10	0.050	mg/L		04/25/23 17:10	04/28/23 02:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/25/23 17:10	04/28/23 02:19	1
Calcium	18		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 02:19	1
Chromium	0.075		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:19	1
Cobalt	0.011	J	0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:19	1
Iron	81		0.40	0.20	mg/L		04/25/23 17:10	04/28/23 02:19	1
Lead	0.050		0.0075	0.0075	mg/L		05/03/23 17:47	05/04/23 16:57	1
Manganese	0.23		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:19	1
Nickel	0.057		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:19	1
Potassium	9.7		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 02:19	1
Selenium	<0.050		0.050	0.020	mg/L		04/25/23 17:10	04/28/23 02:19	1
Silver	<0.025		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:19	1
Zinc	0.22	J	0.50	0.020	mg/L		04/25/23 17:10	04/28/23 02:19	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/25/23 17:10	04/26/23 16:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/25/23 17:10	04/26/23 16:19	1

Method: SW846 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		05/01/23 12:30	05/02/23 11:31	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.021	0.011	mg/Kg	⊛	05/04/23 15:30	05/05/23 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	⊛	04/27/23 08:25	04/27/23 10:30	1
pH (SW846 9045D)	7.5		0.2	0.2	SU			04/24/23 21:30	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B151-2

Lab Sample ID: 500-232642-15

Date Collected: 04/20/23 11:20

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 85.0

Method: SW846 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	✳	04/21/23 17:15	04/25/23 16:50	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
1,1-Dichloroethane	<0.0019		0.0019	0.00067	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Acetone	<0.019	+	0.019	0.0085	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Benzene	<0.0019		0.0019	0.00050	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Bromodichloromethane	<0.0019		0.0019	0.00040	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Bromomethane	<0.0049	-	0.0049	0.0018	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Chlorobenzene	<0.0019		0.0019	0.00072	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Chloroethane	<0.0049	-	0.0049	0.0014	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00059	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Dibromochloromethane	<0.0019		0.0019	0.00064	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Styrene	<0.0019		0.0019	0.00059	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Toluene	0.00072	J	0.0019	0.00049	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Trichloroethene	<0.0019		0.0019	0.00066	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	✳	04/21/23 17:15	04/25/23 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	04/21/23 17:15	04/25/23 16:50	1
4-Bromofluorobenzene (Surr)	99		75 - 131	04/21/23 17:15	04/25/23 16:50	1
Dibromofluoromethane	116		75 - 126	04/21/23 17:15	04/25/23 16:50	1
Toluene-d8 (Surr)	112		75 - 124	04/21/23 17:15	04/25/23 16:50	1

Method: SW846 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	✳	04/30/23 10:36	05/05/23 14:14	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B151-2

Lab Sample ID: 500-232642-15

Date Collected: 04/20/23 11:20

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 85.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
4-Bromophenyl phenyl ether	<0.19	*	0.19	0.050	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
4-Chloro-3-methylphenol	<0.37	*	0.37	0.13	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Carbazole	<0.19		0.19	0.094	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Chrysene	<0.037		0.037	0.010	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Di-n-octyl phthalate	<0.19	*	0.19	0.062	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✳	04/30/23 10:36	05/05/23 14:14	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B151-2

Lab Sample ID: 500-232642-15

Date Collected: 04/20/23 11:20

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 85.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	04/30/23 10:36	05/05/23 14:14	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	04/30/23 10:36	05/05/23 14:14	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	04/30/23 10:36	05/05/23 14:14	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	04/30/23 10:36	05/05/23 14:14	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	04/30/23 10:36	05/05/23 14:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	04/30/23 10:36	05/05/23 14:14	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	04/30/23 10:36	05/05/23 14:14	1
Phenanthrene	<0.037		0.037	0.0053	mg/Kg	☼	04/30/23 10:36	05/05/23 14:14	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	04/30/23 10:36	05/05/23 14:14	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	04/30/23 10:36	05/05/23 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	24	S1-	31 - 143				04/30/23 10:36	05/05/23 14:14	1
2-Fluorobiphenyl	36	S1-	43 - 145				04/30/23 10:36	05/05/23 14:14	1
2-Fluorophenol	31		31 - 166				04/30/23 10:36	05/05/23 14:14	1
Nitrobenzene-d5 (Surr)	36	S1-	37 - 147				04/30/23 10:36	05/05/23 14:14	1
Phenol-d5	33		30 - 153				04/30/23 10:36	05/05/23 14:14	1
Terphenyl-d14 (Surr)	41	S1-	42 - 157				04/30/23 10:36	05/05/23 14:14	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.1	0.22	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Arsenic	8.3		0.56	0.19	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Barium	59	B	0.56	0.064	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Beryllium	0.92	B	0.22	0.052	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Boron	12	B	2.8	0.26	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Cadmium	0.21	B	0.11	0.020	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Calcium	69000		56	9.5	mg/Kg	☼	04/26/23 10:01	05/03/23 00:22	5
Chromium	17		0.56	0.28	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Cobalt	10		0.28	0.074	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Copper	20		0.56	0.16	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Iron	22000		11	5.8	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Lead	12		0.28	0.13	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Magnesium	27000		5.6	2.8	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Manganese	330	B	0.56	0.081	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Nickel	27		0.56	0.16	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Potassium	2900		28	9.9	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Silver	0.26	J	0.28	0.072	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Sodium	170		56	8.3	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Thallium	0.45	J	0.56	0.28	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Vanadium	21	B	0.28	0.066	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1
Zinc	65		1.1	0.49	mg/Kg	☼	04/26/23 10:01	05/02/23 02:47	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/25/23 17:08	04/28/23 23:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/25/23 17:08	04/28/23 23:50	1
Iron	<0.40		0.40	0.20	mg/L		04/25/23 17:08	04/28/23 23:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/23 17:45	05/05/23 13:52	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B151-2

Lab Sample ID: 500-232642-15

Date Collected: 04/20/23 11:20

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 85.0

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.67		0.025	0.010	mg/L		04/25/23 17:08	04/28/23 23:50	1
Nickel	<0.025		0.025	0.010	mg/L		04/25/23 17:08	04/28/23 23:50	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.054		0.050	0.010	mg/L		04/25/23 17:10	04/28/23 02:30	1
Barium	0.42	J	0.50	0.050	mg/L		04/25/23 17:10	04/28/23 02:30	1
Beryllium	0.0051		0.0040	0.0040	mg/L		04/25/23 17:10	04/28/23 02:30	1
Boron	0.14		0.10	0.050	mg/L		04/25/23 17:10	04/28/23 02:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/25/23 17:10	04/28/23 02:30	1
Calcium	57		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 02:30	1
Chromium	0.10		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:30	1
Cobalt	0.026		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:30	1
Iron	110		0.40	0.20	mg/L		04/25/23 17:10	04/28/23 02:30	1
Lead	0.060		0.0075	0.0075	mg/L		05/03/23 17:47	05/04/23 17:01	1
Manganese	0.45		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:30	1
Nickel	0.11		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:30	1
Potassium	24		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 02:30	1
Selenium	<0.050		0.050	0.020	mg/L		04/25/23 17:10	04/28/23 02:30	1
Silver	<0.025		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:30	1
Zinc	0.38	J	0.50	0.020	mg/L		04/25/23 17:10	04/28/23 02:30	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/25/23 17:10	04/26/23 16:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/25/23 17:10	04/26/23 16:21	1

Method: SW846 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		05/01/23 12:30	05/02/23 11:33	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.017	0.0091	mg/Kg	☆	05/04/23 15:30	05/05/23 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	☆	04/27/23 08:26	04/27/23 10:32	1
pH (SW846 9045D)	7.8		0.2	0.2	SU			04/24/23 21:32	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B151-3

Lab Sample ID: 500-232642-16

Date Collected: 04/20/23 11:30

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 77.7

Method: SW846 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	✱	04/21/23 17:15	04/25/23 17:14	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Acetone	<0.018	*+	0.018	0.0079	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Bromomethane	<0.0045	*-	0.0045	0.0017	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Chloroethane	<0.0045	*-	0.0045	0.0013	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Toluene	0.0012	J	0.0018	0.00046	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	✱	04/21/23 17:15	04/25/23 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	04/21/23 17:15	04/25/23 17:14	1
4-Bromofluorobenzene (Surr)	109		75 - 131	04/21/23 17:15	04/25/23 17:14	1
Dibromofluoromethane	116		75 - 126	04/21/23 17:15	04/25/23 17:14	1
Toluene-d8 (Surr)	112		75 - 124	04/21/23 17:15	04/25/23 17:14	1

Method: SW846 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	✱	04/30/23 10:36	05/04/23 13:56	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	✱	04/30/23 10:36	05/04/23 13:56	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	✱	04/30/23 10:36	05/04/23 13:56	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	✱	04/30/23 10:36	05/04/23 13:56	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	✱	04/30/23 10:36	05/04/23 13:56	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B151-3

Lab Sample ID: 500-232642-16

Date Collected: 04/20/23 11:30

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 77.7

Method: SW846 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	0.096	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
2-Methylnaphthalene	<0.085		0.085	0.0077	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
4-Bromophenyl phenyl ether	<0.21	*	0.21	0.055	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
4-Chloro-3-methylphenol	<0.42	*	0.42	0.14	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Benzo[a]anthracene	<0.042		0.042	0.0056	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Di-n-octyl phthalate	<0.21	*	0.21	0.068	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Fluoranthene	<0.042		0.042	0.0078	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Hexachlorobenzene	<0.085		0.085	0.0097	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	04/30/23 10:36	05/04/23 13:56	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B151-3

Lab Sample ID: 500-232642-16

Date Collected: 04/20/23 11:30

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 77.7

Method: SW846 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	✳	04/30/23 10:36	05/04/23 13:56	1
Isophorone	<0.21		0.21	0.047	mg/Kg	✳	04/30/23 10:36	05/04/23 13:56	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	✳	04/30/23 10:36	05/04/23 13:56	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	✳	04/30/23 10:36	05/04/23 13:56	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.051	mg/Kg	✳	04/30/23 10:36	05/04/23 13:56	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	✳	04/30/23 10:36	05/04/23 13:56	1
Pentachlorophenol	<0.85		0.85	0.67	mg/Kg	✳	04/30/23 10:36	05/04/23 13:56	1
Phenanthrene	<0.042		0.042	0.0058	mg/Kg	✳	04/30/23 10:36	05/04/23 13:56	1
Phenol	<0.21		0.21	0.093	mg/Kg	✳	04/30/23 10:36	05/04/23 13:56	1
Pyrene	<0.042		0.042	0.0083	mg/Kg	✳	04/30/23 10:36	05/04/23 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	83		31 - 143	04/30/23 10:36	05/04/23 13:56	1
2-Fluorobiphenyl	82		43 - 145	04/30/23 10:36	05/04/23 13:56	1
2-Fluorophenol	84		31 - 166	04/30/23 10:36	05/04/23 13:56	1
Nitrobenzene-d5 (Surr)	79		37 - 147	04/30/23 10:36	05/04/23 13:56	1
Phenol-d5	85		30 - 153	04/30/23 10:36	05/04/23 13:56	1
Terphenyl-d14 (Surr)	98		42 - 157	04/30/23 10:36	05/04/23 13:56	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.25	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Arsenic	2.5		0.64	0.22	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Barium	88 B		0.64	0.073	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Beryllium	0.84 B		0.26	0.060	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Boron	13 B		3.2	0.30	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Cadmium	0.26 B		0.13	0.023	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Calcium	99000		64	11	mg/Kg	✳	04/26/23 10:01	05/03/23 00:25	5
Chromium	18		0.64	0.32	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Cobalt	6.2		0.32	0.084	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Copper	16		0.64	0.18	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Iron	17000		13	6.6	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Lead	11		0.32	0.15	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Magnesium	29000		6.4	3.2	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Manganese	300 B		0.64	0.093	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Nickel	22		0.64	0.19	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Potassium	3300		32	11	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Selenium	<0.64		0.64	0.38	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Silver	0.26 J		0.32	0.082	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Sodium	220		64	9.5	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Thallium	0.34 J		0.64	0.32	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Vanadium	19 B		0.32	0.075	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1
Zinc	54		1.3	0.56	mg/Kg	✳	04/26/23 10:01	05/02/23 02:50	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.010 J		0.050	0.010	mg/L		04/25/23 17:08	04/29/23 00:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/25/23 17:08	04/29/23 00:36	1
Chromium	<0.025		0.025	0.010	mg/L		04/25/23 17:08	04/29/23 00:36	1
Iron	<0.40		0.40	0.20	mg/L		04/25/23 17:08	04/29/23 00:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B151-3

Lab Sample ID: 500-232642-16

Date Collected: 04/20/23 11:30

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 77.7

Method: SW846 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		05/09/23 17:10	05/10/23 14:22	1
Manganese	3.6		0.025	0.010	mg/L		04/25/23 17:08	04/29/23 00:36	1
Nickel	0.023	J	0.025	0.010	mg/L		04/25/23 17:08	04/29/23 00:36	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.056		0.050	0.010	mg/L		04/25/23 17:10	04/28/23 02:33	1
Barium	0.48	J	0.50	0.050	mg/L		04/25/23 17:10	04/28/23 02:33	1
Beryllium	0.0063		0.0040	0.0040	mg/L		04/25/23 17:10	04/28/23 02:33	1
Boron	0.17		0.10	0.050	mg/L		04/25/23 17:10	04/28/23 02:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/25/23 17:10	04/28/23 02:33	1
Calcium	91		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 02:33	1
Chromium	0.13		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:33	1
Cobalt	0.038		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:33	1
Iron	140		0.40	0.20	mg/L		04/25/23 17:10	04/28/23 02:33	1
Lead	0.049		0.0075	0.0075	mg/L		05/03/23 17:47	05/04/23 17:04	1
Manganese	0.71		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:33	1
Nickel	0.15		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:33	1
Potassium	28		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 02:33	1
Selenium	<0.050		0.050	0.020	mg/L		04/25/23 17:10	04/28/23 02:33	1
Silver	<0.025		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:33	1
Zinc	0.36	J	0.50	0.020	mg/L		04/25/23 17:10	04/28/23 02:33	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/25/23 17:10	04/26/23 16:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/25/23 17:10	04/26/23 16:23	1

Method: SW846 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		05/01/23 12:30	05/02/23 11:35	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.020	0.010	mg/Kg	☆	05/04/23 15:30	05/05/23 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27	F1 F2	0.27	0.13	mg/Kg	☆	04/27/23 08:02	04/27/23 11:08	1
pH (SW846 9045D)	8.0		0.2	0.2	SU			04/24/23 21:35	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B150-1

Lab Sample ID: 500-232642-17

Date Collected: 04/20/23 11:40

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 85.7

Method: SW846 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	✳	04/21/23 17:15	04/25/23 17:38	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Acetone	<0.017	+	0.017	0.0075	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Bromomethane	<0.0043	-	0.0043	0.0016	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Chloroethane	<0.0043	-	0.0043	0.0013	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Toluene	0.00091	J	0.0017	0.00044	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	✳	04/21/23 17:15	04/25/23 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	04/21/23 17:15	04/25/23 17:38	1
4-Bromofluorobenzene (Surr)	99		75 - 131	04/21/23 17:15	04/25/23 17:38	1
Dibromofluoromethane	120		75 - 126	04/21/23 17:15	04/25/23 17:38	1
Toluene-d8 (Surr)	110		75 - 124	04/21/23 17:15	04/25/23 17:38	1

Method: SW846 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	0.040	mg/Kg	✳	04/30/23 10:36	05/04/23 13:31	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✳	04/30/23 10:36	05/04/23 13:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	04/30/23 10:36	05/04/23 13:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✳	04/30/23 10:36	05/04/23 13:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✳	04/30/23 10:36	05/04/23 13:31	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B150-1

Lab Sample ID: 500-232642-17

Date Collected: 04/20/23 11:40

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 85.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
4-Bromophenyl phenyl ether	<0.19	*	0.19	0.049	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
4-Chloro-3-methylphenol	<0.37	*	0.37	0.13	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Carbazole	<0.19		0.19	0.093	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Chrysene	<0.037		0.037	0.010	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Di-n-octyl phthalate	<0.19	*	0.19	0.061	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✱	04/30/23 10:36	05/04/23 13:31	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B150-1

Lab Sample ID: 500-232642-17

Date Collected: 04/20/23 11:40

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 85.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	✳	04/30/23 10:36	05/04/23 13:31	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✳	04/30/23 10:36	05/04/23 13:31	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	✳	04/30/23 10:36	05/04/23 13:31	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	✳	04/30/23 10:36	05/04/23 13:31	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	✳	04/30/23 10:36	05/04/23 13:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✳	04/30/23 10:36	05/04/23 13:31	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	✳	04/30/23 10:36	05/04/23 13:31	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	✳	04/30/23 10:36	05/04/23 13:31	1
Phenol	<0.19		0.19	0.083	mg/Kg	✳	04/30/23 10:36	05/04/23 13:31	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	✳	04/30/23 10:36	05/04/23 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	86		31 - 143				04/30/23 10:36	05/04/23 13:31	1
2-Fluorobiphenyl	74		43 - 145				04/30/23 10:36	05/04/23 13:31	1
2-Fluorophenol	73		31 - 166				04/30/23 10:36	05/04/23 13:31	1
Nitrobenzene-d5 (Surr)	67		37 - 147				04/30/23 10:36	05/04/23 13:31	1
Phenol-d5	78		30 - 153				04/30/23 10:36	05/04/23 13:31	1
Terphenyl-d14 (Surr)	93		42 - 157				04/30/23 10:36	05/04/23 13:31	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Arsenic	7.2		0.56	0.19	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Barium	73 B		0.56	0.064	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Beryllium	0.69 B		0.22	0.052	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Boron	3.1 B		2.8	0.26	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Cadmium	0.18 B		0.11	0.020	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Calcium	3300		11	1.9	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Chromium	13		0.56	0.28	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Cobalt	8.2		0.28	0.073	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Copper	11		0.56	0.16	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Iron	17000		11	5.8	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Lead	18		0.28	0.13	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Magnesium	3300		5.6	2.8	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Manganese	530 B		0.56	0.081	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Nickel	12		0.56	0.16	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Potassium	850		28	9.9	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Selenium	<0.56		0.56	0.33	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Silver	0.29		0.28	0.072	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Sodium	110		56	8.2	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Thallium	<0.56		0.56	0.28	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Vanadium	24 B		0.28	0.066	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1
Zinc	57		1.1	0.49	mg/Kg	✳	04/26/23 10:01	05/02/23 02:54	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		04/25/23 17:08	04/28/23 23:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/23 17:45	05/05/23 14:02	1
Manganese	0.67		0.025	0.010	mg/L		04/25/23 17:08	04/28/23 23:54	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B150-1

Lab Sample ID: 500-232642-17

Date Collected: 04/20/23 11:40

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 85.7

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.040	J	0.050	0.010	mg/L		04/25/23 17:10	04/28/23 02:37	1
Barium	0.31	J	0.50	0.050	mg/L		04/25/23 17:10	04/28/23 02:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/25/23 17:10	04/28/23 02:37	1
Boron	0.086	J	0.10	0.050	mg/L		04/25/23 17:10	04/28/23 02:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/25/23 17:10	04/28/23 02:37	1
Calcium	19		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 02:37	1
Chromium	0.072		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:37	1
Cobalt	0.017	J	0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:37	1
Iron	84		0.40	0.20	mg/L		04/25/23 17:10	04/28/23 02:37	1
Lead	0.029		0.0075	0.0075	mg/L		05/03/23 17:47	05/04/23 17:07	1
Manganese	0.30		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:37	1
Nickel	0.070		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:37	1
Potassium	13		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 02:37	1
Selenium	<0.050		0.050	0.020	mg/L		04/25/23 17:10	04/28/23 02:37	1
Silver	<0.025		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:37	1
Zinc	0.27	J	0.50	0.020	mg/L		04/25/23 17:10	04/28/23 02:37	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/25/23 17:10	04/26/23 16:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/25/23 17:10	04/26/23 16:25	1

Method: SW846 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		05/01/23 12:30	05/02/23 11:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.018	0.0093	mg/Kg	⊛	05/04/23 15:30	05/05/23 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.14	mg/Kg	⊛	04/27/23 08:05	04/27/23 11:13	1
pH (SW846 9045D)	7.7		0.2	0.2	SU			04/24/23 21:37	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B150-2

Lab Sample ID: 500-232642-18

Date Collected: 04/20/23 11:50

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 85.6

Method: SW846 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	☆	04/21/23 17:15	04/25/23 18:03	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00062	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
1,1-Dichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
1,2-Dichloropropane	<0.0020		0.0020	0.00050	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Acetone	<0.020	*+	0.020	0.0085	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Bromomethane	<0.0049	*-	0.0049	0.0018	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Chlorobenzene	<0.0020		0.0020	0.00072	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Chloroethane	<0.0049	*-	0.0049	0.0014	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Ethylbenzene	<0.0020		0.0020	0.00093	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00057	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Tetrachloroethene	<0.0020		0.0020	0.00066	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Toluene	0.00067	J	0.0020	0.00049	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00086	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Vinyl chloride	<0.0020		0.0020	0.00086	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☆	04/21/23 17:15	04/25/23 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	04/21/23 17:15	04/25/23 18:03	1
4-Bromofluorobenzene (Surr)	103		75 - 131	04/21/23 17:15	04/25/23 18:03	1
Dibromofluoromethane	115		75 - 126	04/21/23 17:15	04/25/23 18:03	1
Toluene-d8 (Surr)	111		75 - 124	04/21/23 17:15	04/25/23 18:03	1

Method: SW846 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	☆	04/30/23 10:36	05/04/23 12:41	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☆	04/30/23 10:36	05/04/23 12:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☆	04/30/23 10:36	05/04/23 12:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☆	04/30/23 10:36	05/04/23 12:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☆	04/30/23 10:36	05/04/23 12:41	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B150-2

Lab Sample ID: 500-232642-18

Date Collected: 04/20/23 11:50

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 85.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
4-Bromophenyl phenyl ether	<0.19	*	0.19	0.050	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
4-Chloro-3-methylphenol	<0.37	*	0.37	0.13	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Carbazole	<0.19		0.19	0.094	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Chrysene	<0.037		0.037	0.010	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Di-n-octyl phthalate	<0.19	*	0.19	0.061	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B150-2

Lab Sample ID: 500-232642-18

Date Collected: 04/20/23 11:50

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 85.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Phenanthrene	<0.037		0.037	0.0053	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Phenol	<0.19		0.19	0.084	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	✳	04/30/23 10:36	05/04/23 12:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		31 - 143				04/30/23 10:36	05/04/23 12:41	1
2-Fluorobiphenyl	76		43 - 145				04/30/23 10:36	05/04/23 12:41	1
2-Fluorophenol	73		31 - 166				04/30/23 10:36	05/04/23 12:41	1
Nitrobenzene-d5 (Surr)	70		37 - 147				04/30/23 10:36	05/04/23 12:41	1
Phenol-d5	72		30 - 153				04/30/23 10:36	05/04/23 12:41	1
Terphenyl-d14 (Surr)	90		42 - 157				04/30/23 10:36	05/04/23 12:41	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.1	0.22	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Arsenic	10		0.55	0.19	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Barium	63	B	0.55	0.063	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Beryllium	0.91	B	0.22	0.052	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Boron	12	B	2.8	0.26	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Cadmium	0.22	B	0.11	0.020	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Calcium	72000		55	9.4	mg/Kg	✳	04/26/23 10:01	05/03/23 00:38	5
Chromium	16		0.55	0.27	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Cobalt	19		0.28	0.073	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Copper	23		0.55	0.16	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Iron	23000		11	5.8	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Lead	14		0.28	0.13	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Magnesium	28000		5.5	2.7	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Manganese	560	B	0.55	0.080	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Nickel	37		0.55	0.16	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Potassium	2900		28	9.8	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Selenium	<0.55		0.55	0.33	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Silver	0.41		0.28	0.071	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Sodium	230		55	8.2	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Thallium	<0.55		0.55	0.28	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Vanadium	21	B	0.28	0.065	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1
Zinc	66		1.1	0.49	mg/Kg	✳	04/26/23 10:01	05/02/23 02:57	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/25/23 17:08	04/28/23 23:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/25/23 17:08	04/28/23 23:57	1
Chromium	<0.025		0.025	0.010	mg/L		04/25/23 17:08	04/28/23 23:57	1
Iron	<0.40		0.40	0.20	mg/L		04/25/23 17:08	04/28/23 23:57	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B150-2

Lab Sample ID: 500-232642-18

Date Collected: 04/20/23 11:50

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 85.6

Method: SW846 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		04/25/23 17:08	04/28/23 23:57	1
Manganese	0.68		0.025	0.010	mg/L		04/25/23 17:08	04/28/23 23:57	1
Nickel	<0.025		0.025	0.010	mg/L		04/25/23 17:08	04/28/23 23:57	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.073		0.050	0.010	mg/L		04/25/23 17:10	04/28/23 02:40	1
Barium	0.47	J	0.50	0.050	mg/L		04/25/23 17:10	04/28/23 02:40	1
Beryllium	0.0061		0.0040	0.0040	mg/L		04/25/23 17:10	04/28/23 02:40	1
Boron	0.16		0.10	0.050	mg/L		04/25/23 17:10	04/28/23 02:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/25/23 17:10	04/28/23 02:40	1
Calcium	59		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 02:40	1
Chromium	0.13		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:40	1
Cobalt	0.042		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:40	1
Iron	150		0.40	0.20	mg/L		04/25/23 17:10	04/28/23 02:40	1
Lead	0.088		0.0075	0.0075	mg/L		05/03/23 17:47	05/04/23 17:11	1
Manganese	0.58		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:40	1
Nickel	0.16		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:40	1
Potassium	27		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 02:40	1
Selenium	<0.050		0.050	0.020	mg/L		04/25/23 17:10	04/28/23 02:40	1
Silver	<0.025		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:40	1
Zinc	0.44	J	0.50	0.020	mg/L		04/25/23 17:10	04/28/23 02:40	1

Method: SW846 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		04/25/23 17:08	04/27/23 19:15	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/25/23 17:10	04/26/23 16:27	1
Thallium	0.0023		0.0020	0.0020	mg/L		04/25/23 17:10	04/26/23 16:27	1

Method: SW846 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		05/01/23 12:30	05/02/23 11:57	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.017	0.0092	mg/Kg	✱	05/04/23 15:30	05/05/23 09:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	✱	04/27/23 08:06	04/27/23 11:14	1
pH (SW846 9045D)	7.5		0.2	0.2	SU			04/24/23 21:40	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B150-3

Lab Sample ID: 500-232642-19

Date Collected: 04/20/23 12:00

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 84.5

Method: SW846 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	✳	04/21/23 17:15	04/25/23 18:27	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Acetone	<0.019	+	0.019	0.0083	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Bromomethane	<0.0048	-	0.0048	0.0018	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Chloroethane	<0.0048	-	0.0048	0.0014	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Toluene	0.00073	J	0.0019	0.00048	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	✳	04/21/23 17:15	04/25/23 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	04/21/23 17:15	04/25/23 18:27	1
4-Bromofluorobenzene (Surr)	104		75 - 131	04/21/23 17:15	04/25/23 18:27	1
Dibromofluoromethane	114		75 - 126	04/21/23 17:15	04/25/23 18:27	1
Toluene-d8 (Surr)	113		75 - 124	04/21/23 17:15	04/25/23 18:27	1

Method: SW846 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	0.040	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B150-3

Lab Sample ID: 500-232642-19

Date Collected: 04/20/23 12:00

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 84.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
4-Bromophenyl phenyl ether	<0.19	*	0.19	0.049	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
4-Chloro-3-methylphenol	<0.37	*	0.37	0.13	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Carbazole	<0.19		0.19	0.093	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Chrysene	<0.037		0.037	0.010	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Di-n-octyl phthalate	<0.19	*	0.19	0.061	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B150-3

Lab Sample ID: 500-232642-19

Date Collected: 04/20/23 12:00

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 84.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Phenol	<0.19		0.19	0.083	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	✳	04/30/23 10:36	05/04/23 12:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	55		31 - 143				04/30/23 10:36	05/04/23 12:17	1
2-Fluorobiphenyl	54		43 - 145				04/30/23 10:36	05/04/23 12:17	1
2-Fluorophenol	56		31 - 166				04/30/23 10:36	05/04/23 12:17	1
Nitrobenzene-d5 (Surr)	52		37 - 147				04/30/23 10:36	05/04/23 12:17	1
Phenol-d5	56		30 - 153				04/30/23 10:36	05/04/23 12:17	1
Terphenyl-d14 (Surr)	82		42 - 157				04/30/23 10:36	05/04/23 12:17	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.1	0.21	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Arsenic	11		0.54	0.19	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Barium	73	B	0.54	0.062	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Beryllium	0.93	B	0.22	0.051	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Boron	12	B	2.7	0.25	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Cadmium	0.20	B	0.11	0.020	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Calcium	63000		54	9.2	mg/Kg	✳	04/26/23 10:01	05/03/23 00:41	5
Chromium	17		0.54	0.27	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Cobalt	19		0.27	0.071	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Copper	23		0.54	0.15	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Iron	23000		11	5.6	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Lead	13		0.27	0.13	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Magnesium	26000		5.4	2.7	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Manganese	510	B	0.54	0.079	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Nickel	38		0.54	0.16	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Potassium	2800		27	9.6	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Selenium	0.35	J	0.54	0.32	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Silver	0.35		0.27	0.070	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Sodium	230		54	8.0	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Thallium	0.30	J	0.54	0.27	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Vanadium	22	B	0.27	0.064	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1
Zinc	65		1.1	0.48	mg/Kg	✳	04/26/23 10:01	05/02/23 03:01	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/25/23 17:08	04/29/23 00:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/25/23 17:08	04/29/23 00:40	1
Chromium	<0.025		0.025	0.010	mg/L		04/25/23 17:08	04/29/23 00:40	1
Iron	<0.40		0.40	0.20	mg/L		04/25/23 17:08	04/29/23 00:40	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Client Sample ID: 2233V3-1-B150-3

Lab Sample ID: 500-232642-19

Date Collected: 04/20/23 12:00

Matrix: Solid

Date Received: 04/21/23 13:18

Percent Solids: 84.5

Method: SW846 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		05/09/23 17:10	05/10/23 14:26	1
Manganese	3.5		0.025	0.010	mg/L		04/25/23 17:08	04/29/23 00:40	1
Nickel	0.024	J	0.025	0.010	mg/L		04/25/23 17:08	04/29/23 00:40	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.068		0.050	0.010	mg/L		04/25/23 17:10	04/28/23 02:44	1
Barium	0.40	J	0.50	0.050	mg/L		04/25/23 17:10	04/28/23 02:44	1
Beryllium	0.0055		0.0040	0.0040	mg/L		04/25/23 17:10	04/28/23 02:44	1
Boron	0.14		0.10	0.050	mg/L		04/25/23 17:10	04/28/23 02:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/25/23 17:10	04/28/23 02:44	1
Calcium	67		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 02:44	1
Chromium	0.11		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:44	1
Cobalt	0.035		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:44	1
Iron	130		0.40	0.20	mg/L		04/25/23 17:10	04/28/23 02:44	1
Lead	0.061		0.0075	0.0075	mg/L		05/03/23 17:47	05/04/23 17:14	1
Manganese	0.61		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:44	1
Nickel	0.14		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:44	1
Potassium	24		2.5	0.50	mg/L		04/25/23 17:10	04/28/23 02:44	1
Selenium	<0.050		0.050	0.020	mg/L		04/25/23 17:10	04/28/23 02:44	1
Silver	<0.025		0.025	0.010	mg/L		04/25/23 17:10	04/28/23 02:44	1
Zinc	0.33	J	0.50	0.020	mg/L		04/25/23 17:10	04/28/23 02:44	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/25/23 17:10	04/26/23 16:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/25/23 17:10	04/26/23 16:33	1

Method: SW846 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		05/01/23 12:30	05/02/23 11:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0092	mg/Kg	☆	05/04/23 15:30	05/05/23 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25	0.12	mg/Kg	☆	04/27/23 08:07	04/27/23 11:16	1
pH (SW846 9045D)	7.7		0.2	0.2	SU			04/24/23 21:42	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*3	ISTD response or retention time outside acceptable 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.
S1-	Surrogate recovery exceeds control limits, low biased.

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.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
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
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

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Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

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Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232642-1

Laboratory: Eurofins Chicago


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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-23 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	 500-232642 COC	Laboratory Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email Jodie.Bracken@ET.EurofinsUS.com	Project Name <u>AEX-010A</u> Project No <u>PTB/WO:195-002/010A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>J. Weisbrodt</u>	COC No <u>1</u> of <u>3</u> Lab Job No.: <u>500-232642</u> Sample Temp: <u>24-23, 22-22</u>
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Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3) run TCLP for that specific RCRA metal
 ** If SPLP result exceeds Class I Standard run TCLP for that specific parameter
 *** If total cyanide exceeds MAC run ASTM D3987 (Neutral Leach) cyanide

ANALYSES											
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	Comments
1	2233V3-1-B141	4/20/23	0900	J	X	X					X	X	X	X	X		
2	2233V3-1-B140		0910														
3	2233V3-1-B182		0920														
4	2233V3-1-B181		0930														
5	2233V3-1-B181 DUP		0940														
6	2233V3-1-B144-1		0950														
7	2233V3-1-B144-2		1000														
8	2233V3-1-B144-3		1010														
9	2233V3-1-B142		1020														
10	2233V3-1-B143		1030														
11	2233V3-1-B145-1	↓	1040	↓	↓	↓					↓	↓	↓	↓	↓		

Relinquished by <u>Jodie Bracken</u>	Date/Time <u>4/21/23</u>	Received by <u>J. Weisbrodt</u>	Date/Time <u>4/21/23 1135</u>
Relinquished by <u>Colleen Grey</u>	Date/Time <u>9/21/23 1318</u>	Received by <u>Chris Scott</u>	Date/Time <u>4/21/23 1318</u>
Relinquished by	Date/Time	Received by	Date/Time



CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name <u>AE8-010A</u>	COC No <u>2</u> of <u>3</u>
Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email <u>Jodie.Bracken@ET EurofinsUS.com</u>	Project No <u>DTB/WO:195-002/010A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>J. Weisbrodt</u>	Lab Job No.: <u>500-232642</u> Sample Temp:

Special Instructions:
See Table 2 for complete parameter lists and minimum reporting limits
* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3) run TCLP for that specific RCRA metal
** If SPLP result exceeds Class I Standard run TCLP for that specific parameter
*** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide

ANALYSES

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES													Comments			
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization					
12	2233V3-1-B145-2	4/20/23	1050	J	X	X						X	X	X	X	X				BMS-2 DOP not sampled	
13	2233V3-1-B145-3		1100																		
14	2233V3-1-B151-1		1110																		
15	2233V3-1-B157-2		1120																		
16	2233V3-1-B157-3		1130																		
17	2233V3-1-B150-1		1140																		
18	2233V3-1-B150-2		1150																		
19	2233V3-1-B150-3		1200																		
20	2233V3-1-B149-1		1210																		
21	2233V3-1-B149-2		1220																		
22	2233V3-1-B149-2DUP	W	1230	↓	↓	↓						↓	↓	↓	↓	↓					

Relinquished by <u>Jodie Weisbrodt</u>	Date/Time <u>4/21/23</u>	Received by <u>Danika Anderson</u>	Date/Time <u>4/21/23 1:35</u>
Relinquished by <u>Michelle Hunter</u>	Date/Time <u>4/21/23 1:38</u>	Received by <u>Michelle Hunter</u>	Date/Time <u>4/21/23 1:38</u>
Relinquished by	Date/Time	Received by	Date/Time



CHAIN OF CUSTODY RECORD

Client Contact		Laboratory				Project Name <u>AE8-010A</u>				COC No <u>3</u> of <u>3</u>			
Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com		Lab <u>Eurofins - Chicago</u> Address <u>2417 Bond Street</u> <u>University Park, IL 60484</u> Phone <u>708-534-5200</u> Contact <u>Jodie Bracken</u> email <u>Jodie.Bracken@ET EurofinsUS.com</u>				Project No <u>PTB/NO #1: 195-002 / 010A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>J. Weisbrodt</u>				Lab Job No.: <u>500-232642</u> Sample Temp:			

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3) run TCLP for that specific RCRA metal
 ** If SPLP result exceeds Class I Standard run TCLP for that specific parameter
 *** If total cyanide exceeds MAC run ASTM D3987 (Neutral Leach) cyanide

ANALYSES

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	Comments
23	2233V3-1-B149-3	4/20/23	1240	S	X	X					X	X	X	X	X		
	Trip Blank #2			S	X												

Relinquished by <u>Jodie Weisbrodt</u>	Date/Time <u>4/21/23</u>	Received by <u>Shirley Hankins</u>	Date/Time <u>4/21/23 1135</u>
Relinquished by <u>Shirley Hankins</u>	Date/Time <u>4/21/23 1318</u>	Received by <u>Shirley Hankins</u>	Date/Time <u>4/21/23 1318</u>
Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Ms. Colleen Grey
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Generated 5/11/2023 7:21:05 AM

JOB DESCRIPTION

IDOT - AE8-010

JOB NUMBER

500-232668-1

Eurofins Chicago

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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5/11/2023 7:21:05 AM

Authorized for release by
Jodie Bracken, Project Management Assistant II
Jodie.Bracken@et.eurofinsus.com
(708)534-5200

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B154

Lab Sample ID: 500-232668-5

Date Collected: 04/21/23 09:40

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 82.3

Method: SW846 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	✱	04/22/23 13:13	04/26/23 13:17	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
1,1-Dichloroethene	<0.0019	*+	0.0019	0.00065	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Acetone	<0.019		0.019	0.0082	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Chloromethane	<0.0047	*+	0.0047	0.0019	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Toluene	0.0011	J	0.0019	0.00047	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	✱	04/22/23 13:13	04/26/23 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	04/22/23 13:13	04/26/23 13:17	1
4-Bromofluorobenzene (Surr)	92		75 - 131	04/22/23 13:13	04/26/23 13:17	1
Dibromofluoromethane	99		75 - 126	04/22/23 13:13	04/26/23 13:17	1
Toluene-d8 (Surr)	91		75 - 124	04/22/23 13:13	04/26/23 13:17	1

Method: SW846 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	✱	05/04/23 08:04	05/05/23 20:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✱	05/04/23 08:04	05/05/23 20:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✱	05/04/23 08:04	05/05/23 20:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✱	05/04/23 08:04	05/05/23 20:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✱	05/04/23 08:04	05/05/23 20:00	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B154

Lab Sample ID: 500-232668-5

Date Collected: 04/21/23 09:40

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 82.3

Method: SW846 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	☆	05/04/23 08:04	05/05/23 20:00	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Anthracene	0.018	J	0.039	0.0066	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Benzo[a]anthracene	0.075		0.039	0.0053	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Benzo[a]pyrene	0.12		0.039	0.0076	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Benzo[b]fluoranthene	0.13		0.039	0.0085	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Benzo[g,h,i]perylene	0.095		0.039	0.013	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Benzo[k]fluoranthene	0.064		0.039	0.012	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Bis(2-ethylhexyl) phthalate	0.28		0.20	0.072	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Chrysene	0.11		0.039	0.011	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Fluoranthene	0.16		0.039	0.0073	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B154

Lab Sample ID: 500-232668-5

Date Collected: 04/21/23 09:40

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 82.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.10		0.039	0.010	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Phenanthrene	0.084		0.039	0.0055	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Phenol	<0.20		0.20	0.088	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Pyrene	0.17		0.039	0.0078	mg/Kg	☆	05/04/23 08:04	05/05/23 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		31 - 143				05/04/23 08:04	05/05/23 20:00	1
2-Fluorobiphenyl	82		43 - 145				05/04/23 08:04	05/05/23 20:00	1
2-Fluorophenol	67		31 - 166				05/04/23 08:04	05/05/23 20:00	1
Nitrobenzene-d5 (Surr)	76		37 - 147				05/04/23 08:04	05/05/23 20:00	1
Phenol-d5	72		30 - 153				05/04/23 08:04	05/05/23 20:00	1
Terphenyl-d14 (Surr)	107		42 - 157				05/04/23 08:04	05/05/23 20:00	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.2	0.23	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Arsenic	8.0		0.60	0.21	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Barium	52		0.60	0.069	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Beryllium	0.80		0.24	0.056	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Boron	9.2		3.0	0.28	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Cadmium	0.29	B	0.12	0.022	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Calcium	56000	B	60	10	mg/Kg	☆	04/26/23 15:45	05/03/23 18:33	5
Chromium	14		0.60	0.30	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Cobalt	11		0.30	0.079	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Copper	22		0.60	0.17	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Iron	21000		12	6.3	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Lead	16		0.30	0.14	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Magnesium	25000		6.0	3.0	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Manganese	420		0.60	0.087	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Nickel	28		0.60	0.17	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Potassium	2200		30	11	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Selenium	<0.60		0.60	0.35	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Silver	0.35		0.30	0.078	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Sodium	1800		60	8.9	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Thallium	<0.60		0.60	0.30	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Vanadium	18		0.30	0.071	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1
Zinc	75		1.2	0.53	mg/Kg	☆	04/26/23 15:45	05/02/23 18:32	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:31	05/05/23 00:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:31	05/05/23 00:39	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:31	05/05/23 00:39	1
Iron	0.89		0.40	0.20	mg/L		04/26/23 17:31	05/05/23 00:39	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B154

Lab Sample ID: 500-232668-5

Date Collected: 04/21/23 09:40

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 82.3

Method: SW846 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		05/08/23 16:47	05/09/23 15:53	1
Manganese	6.6		0.025	0.010	mg/L		04/26/23 17:31	05/05/23 00:39	1
Nickel	0.054		0.025	0.010	mg/L		04/26/23 17:31	05/05/23 00:39	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.15		0.050	0.010	mg/L		04/26/23 17:32	05/03/23 01:33	1
Barium	0.91		0.50	0.050	mg/L		04/26/23 17:32	05/03/23 01:33	1
Beryllium	0.014		0.0040	0.0040	mg/L		04/26/23 17:32	05/03/23 01:33	1
Boron	0.25		0.10	0.050	mg/L		04/26/23 17:32	05/03/23 01:33	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		04/26/23 17:32	05/03/23 01:33	1
Calcium	64		2.5	0.50	mg/L		04/26/23 17:32	05/03/23 01:33	1
Chromium	0.22		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 01:33	1
Cobalt	0.11		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 01:33	1
Iron	290		0.40	0.20	mg/L		04/26/23 17:32	05/03/23 01:33	1
Lead	0.18		0.0075	0.0075	mg/L		04/26/23 17:32	05/03/23 01:33	1
Manganese	1.9		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 01:33	1
Nickel	0.36		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 01:33	1
Potassium	49		2.5	0.50	mg/L		04/26/23 17:32	05/03/23 01:33	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:32	05/03/23 01:33	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 01:33	1
Zinc	0.90		0.50	0.020	mg/L		04/26/23 17:32	05/03/23 01:33	1

Method: SW846 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		04/26/23 17:31	04/28/23 19:11	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:32	04/27/23 13:47	1
Thallium	0.0045		0.0020	0.0020	mg/L		04/26/23 17:32	04/27/23 13:47	1

Method: SW846 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		05/01/23 12:30	05/02/23 10:06	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0097	mg/Kg	⊛	05/03/23 17:05	05/04/23 08:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.29		0.29	0.15	mg/Kg	⊛	04/27/23 08:19	04/27/23 11:52	1
pH (SW846 9045D)	8.7		0.2	0.2	SU			04/25/23 17:23	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B196-1

Lab Sample ID: 500-232668-10

Date Collected: 04/21/23 10:30

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 84.3

Method: SW846 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	0.00073	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00070	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00094	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
1,1-Dichloroethane	<0.0022		0.0022	0.00075	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
1,1-Dichloroethene	<0.0022	*+	0.0022	0.00075	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
1,2-Dichloroethane	<0.0055		0.0055	0.0017	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.00077	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
2-Butanone (MEK)	<0.0055		0.0055	0.0024	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
2-Hexanone	<0.0055		0.0055	0.0017	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0016	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Acetone	<0.022		0.022	0.0095	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Benzene	<0.0022		0.0022	0.00056	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Bromodichloromethane	<0.0022		0.0022	0.00044	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Bromoform	<0.0022		0.0022	0.00064	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Bromomethane	<0.0055		0.0055	0.0021	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Carbon disulfide	<0.0055		0.0055	0.0011	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Carbon tetrachloride	<0.0022		0.0022	0.00063	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Chlorobenzene	<0.0022		0.0022	0.00081	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Chloroethane	<0.0055		0.0055	0.0016	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Chloroform	<0.0022		0.0022	0.00076	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Chloromethane	<0.0055	*+	0.0055	0.0022	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00061	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00066	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Dibromochloromethane	<0.0022		0.0022	0.00071	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00064	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Methylene Chloride	<0.0055		0.0055	0.0022	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Styrene	<0.0022		0.0022	0.00066	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Toluene	0.0028		0.0022	0.00055	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00097	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00077	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Trichloroethene	<0.0022		0.0022	0.00074	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Vinyl chloride	<0.0022		0.0022	0.00097	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1
Xylenes, Total	<0.0044		0.0044	0.00070	mg/Kg	✳	04/22/23 13:13	04/26/23 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	04/22/23 13:13	04/26/23 15:26	1
4-Bromofluorobenzene (Surr)	91		75 - 131	04/22/23 13:13	04/26/23 15:26	1
Dibromofluoromethane	96		75 - 126	04/22/23 13:13	04/26/23 15:26	1
Toluene-d8 (Surr)	88		75 - 124	04/22/23 13:13	04/26/23 15:26	1

Method: SW846 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	✳	05/04/23 08:04	05/05/23 15:28	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✳	05/04/23 08:04	05/05/23 15:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✳	05/04/23 08:04	05/05/23 15:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✳	05/04/23 08:04	05/05/23 15:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	✳	05/04/23 08:04	05/05/23 15:28	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B196-1

Lab Sample ID: 500-232668-10

Date Collected: 04/21/23 10:30

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 84.3

Method: SW846 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	☼	05/04/23 08:04	05/05/23 15:28	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
2-Methylnaphthalene	0.0089	J	0.079	0.0072	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Acenaphthene	0.012	J	0.039	0.0070	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Acenaphthylene	0.024	J	0.039	0.0052	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Anthracene	0.080		0.039	0.0065	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Benzo[a]anthracene	0.27		0.039	0.0053	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Benzo[a]pyrene	0.25		0.039	0.0076	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Benzo[b]fluoranthene	0.27		0.039	0.0084	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Benzo[g,h,i]perylene	0.12		0.039	0.013	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Benzo[k]fluoranthene	0.10		0.039	0.012	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Chrysene	0.26		0.039	0.011	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Dibenz(a,h)anthracene	0.039		0.039	0.0076	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Fluoranthene	0.57		0.039	0.0073	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Fluorene	0.025	J	0.039	0.0055	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/04/23 08:04	05/05/23 15:28	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B196-1

Lab Sample ID: 500-232668-10

Date Collected: 04/21/23 10:30

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 84.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.15		0.039	0.010	mg/Kg	☆	05/04/23 08:04	05/05/23 15:28	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☆	05/04/23 08:04	05/05/23 15:28	1
Naphthalene	0.015	J	0.039	0.0060	mg/Kg	☆	05/04/23 08:04	05/05/23 15:28	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☆	05/04/23 08:04	05/05/23 15:28	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☆	05/04/23 08:04	05/05/23 15:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☆	05/04/23 08:04	05/05/23 15:28	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☆	05/04/23 08:04	05/05/23 15:28	1
Phenanthrene	0.53		0.039	0.0055	mg/Kg	☆	05/04/23 08:04	05/05/23 15:28	1
Phenol	<0.20		0.20	0.087	mg/Kg	☆	05/04/23 08:04	05/05/23 15:28	1
Pyrene	0.60		0.039	0.0078	mg/Kg	☆	05/04/23 08:04	05/05/23 15:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	72		31 - 143				05/04/23 08:04	05/05/23 15:28	1
2-Fluorobiphenyl	85		43 - 145				05/04/23 08:04	05/05/23 15:28	1
2-Fluorophenol	71		31 - 166				05/04/23 08:04	05/05/23 15:28	1
Nitrobenzene-d5 (Surr)	80		37 - 147				05/04/23 08:04	05/05/23 15:28	1
Phenol-d5	75		30 - 153				05/04/23 08:04	05/05/23 15:28	1
Terphenyl-d14 (Surr)	103		42 - 157				05/04/23 08:04	05/05/23 15:28	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J	1.2	0.23	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Arsenic	8.3		0.58	0.20	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Barium	86		0.58	0.066	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Beryllium	0.99		0.23	0.054	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Boron	7.1		2.9	0.27	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Cadmium	0.26	B	0.12	0.021	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Calcium	19000	B	12	2.0	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Chromium	18		0.58	0.29	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Cobalt	11		0.29	0.076	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Copper	19		0.58	0.16	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Iron	23000		12	6.0	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Lead	47		0.29	0.13	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Magnesium	13000		5.8	2.9	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Manganese	310		0.58	0.084	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Nickel	26		0.58	0.17	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Potassium	1800		29	10	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Selenium	<0.58		0.58	0.34	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Silver	0.41		0.29	0.075	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Sodium	96		58	8.6	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Thallium	0.42	J	0.58	0.29	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Vanadium	23		0.29	0.069	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1
Zinc	92		1.2	0.51	mg/Kg	☆	04/26/23 15:45	05/02/23 18:50	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:31	05/05/23 01:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:31	05/05/23 01:01	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:31	05/05/23 01:01	1
Iron	0.76		0.40	0.20	mg/L		04/26/23 17:31	05/05/23 01:01	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B196-1

Lab Sample ID: 500-232668-10

Date Collected: 04/21/23 10:30

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 84.3

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.088		0.0075	0.0075	mg/L		05/08/23 16:47	05/09/23 16:12	1
Manganese	3.0		0.025	0.010	mg/L		04/26/23 17:31	05/05/23 01:01	1
Nickel	0.037		0.025	0.010	mg/L		04/26/23 17:31	05/05/23 01:01	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.090		0.050	0.010	mg/L		04/26/23 17:32	05/03/23 01:57	1
Barium	0.69		0.50	0.050	mg/L		04/26/23 17:32	05/03/23 01:57	1
Beryllium	0.010		0.0040	0.0040	mg/L		04/26/23 17:32	05/03/23 01:57	1
Boron	0.24		0.10	0.050	mg/L		04/26/23 17:32	05/03/23 01:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/26/23 17:32	05/03/23 01:57	1
Calcium	46		2.5	0.50	mg/L		04/26/23 17:32	05/03/23 01:57	1
Chromium	0.16		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 01:57	1
Cobalt	0.051		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 01:57	1
Iron	190		0.40	0.20	mg/L		04/26/23 17:32	05/03/23 01:57	1
Lead	0.086		0.0075	0.0075	mg/L		04/26/23 17:32	05/03/23 01:57	1
Manganese	0.84		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 01:57	1
Nickel	0.20		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 01:57	1
Potassium	43		2.5	0.50	mg/L		04/26/23 17:32	05/03/23 01:57	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:32	05/03/23 01:57	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 01:57	1
Zinc	0.45	J	0.50	0.020	mg/L		04/26/23 17:32	05/03/23 01:57	1

Method: SW846 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		04/26/23 17:31	04/28/23 19:20	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:32	04/27/23 14:01	1
Thallium	0.0043		0.0020	0.0020	mg/L		04/26/23 17:32	04/27/23 14:01	1

Method: SW846 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		05/01/23 12:30	05/02/23 10:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056	F1	0.019	0.010	mg/Kg	⊛	05/03/23 17:05	05/04/23 08:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	3.4		0.25	0.13	mg/Kg	⊛	04/27/23 08:24	04/27/23 12:00	1
pH (SW846 9045D)	8.2		0.2	0.2	SU			04/25/23 17:57	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B196-2

Lab Sample ID: 500-232668-11

Date Collected: 04/21/23 10:40

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 86.3

Method: SW846 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	✳	04/22/23 13:13	04/26/23 15:52	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
1,1-Dichloroethene	<0.0019	+	0.0019	0.00066	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Acetone	<0.019		0.019	0.0084	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Chloromethane	<0.0048	+	0.0048	0.0019	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Toluene	0.0029		0.0019	0.00048	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	✳	04/22/23 13:13	04/26/23 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	04/22/23 13:13	04/26/23 15:52	1
4-Bromofluorobenzene (Surr)	91		75 - 131	04/22/23 13:13	04/26/23 15:52	1
Dibromofluoromethane	101		75 - 126	04/22/23 13:13	04/26/23 15:52	1
Toluene-d8 (Surr)	89		75 - 124	04/22/23 13:13	04/26/23 15:52	1

Method: SW846 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	✳	05/04/23 08:04	05/05/23 15:53	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✳	05/04/23 08:04	05/05/23 15:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✳	05/04/23 08:04	05/05/23 15:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✳	05/04/23 08:04	05/05/23 15:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✳	05/04/23 08:04	05/05/23 15:53	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B196-2

Lab Sample ID: 500-232668-11

Date Collected: 04/21/23 10:40

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 86.3

Method: SW846 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	☼	05/04/23 08:04	05/05/23 15:53	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	05/04/23 08:04	05/05/23 15:53	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B196-2

Lab Sample ID: 500-232668-11

Date Collected: 04/21/23 10:40

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 86.3

Method: SW846 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	☆	05/04/23 08:04	05/05/23 15:53	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☆	05/04/23 08:04	05/05/23 15:53	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☆	05/04/23 08:04	05/05/23 15:53	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☆	05/04/23 08:04	05/05/23 15:53	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☆	05/04/23 08:04	05/05/23 15:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☆	05/04/23 08:04	05/05/23 15:53	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☆	05/04/23 08:04	05/05/23 15:53	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☆	05/04/23 08:04	05/05/23 15:53	1
Phenol	<0.19		0.19	0.084	mg/Kg	☆	05/04/23 08:04	05/05/23 15:53	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☆	05/04/23 08:04	05/05/23 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		31 - 143	05/04/23 08:04	05/05/23 15:53	1
2-Fluorobiphenyl	85		43 - 145	05/04/23 08:04	05/05/23 15:53	1
2-Fluorophenol	72		31 - 166	05/04/23 08:04	05/05/23 15:53	1
Nitrobenzene-d5 (Surr)	84		37 - 147	05/04/23 08:04	05/05/23 15:53	1
Phenol-d5	82		30 - 153	05/04/23 08:04	05/05/23 15:53	1
Terphenyl-d14 (Surr)	102		42 - 157	05/04/23 08:04	05/05/23 15:53	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.2	0.23	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Arsenic	7.6		0.58	0.20	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Barium	48		0.58	0.066	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Beryllium	0.88		0.23	0.054	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Boron	9.9		2.9	0.27	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Cadmium	0.18	B	0.12	0.021	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Calcium	51000	B	58	9.8	mg/Kg	☆	04/26/23 15:45	05/03/23 18:46	5
Chromium	16		0.58	0.29	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Cobalt	12		0.29	0.076	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Copper	20		0.58	0.16	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Iron	21000		12	6.0	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Lead	12		0.29	0.13	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Magnesium	22000		5.8	2.9	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Manganese	340		0.58	0.084	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Nickel	29		0.58	0.17	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Potassium	2400		29	10	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Selenium	<0.58		0.58	0.34	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Silver	0.33		0.29	0.075	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Sodium	130		58	8.6	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Thallium	0.39	J	0.58	0.29	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Vanadium	19		0.29	0.068	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1
Zinc	59		1.2	0.51	mg/Kg	☆	04/26/23 15:45	05/02/23 18:53	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:31	05/05/23 01:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:31	05/05/23 01:05	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:31	05/05/23 01:05	1
Iron	0.97		0.40	0.20	mg/L		04/26/23 17:31	05/05/23 01:05	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B196-2

Lab Sample ID: 500-232668-11

Date Collected: 04/21/23 10:40

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 86.3

Method: SW846 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		05/08/23 16:47	05/09/23 16:16	1
Manganese	3.3		0.025	0.010	mg/L		04/26/23 17:31	05/05/23 01:05	1
Nickel	0.030		0.025	0.010	mg/L		04/26/23 17:31	05/05/23 01:05	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.084		0.050	0.010	mg/L		04/26/23 17:32	05/03/23 02:01	1
Barium	0.66		0.50	0.050	mg/L		04/26/23 17:32	05/03/23 02:01	1
Beryllium	0.0097		0.0040	0.0040	mg/L		04/26/23 17:32	05/03/23 02:01	1
Boron	0.23		0.10	0.050	mg/L		04/26/23 17:32	05/03/23 02:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/26/23 17:32	05/03/23 02:01	1
Calcium	90		2.5	0.50	mg/L		04/26/23 17:32	05/03/23 02:01	1
Chromium	0.16		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 02:01	1
Cobalt	0.047		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 02:01	1
Iron	190		0.40	0.20	mg/L		04/26/23 17:32	05/03/23 02:01	1
Lead	0.081		0.0075	0.0075	mg/L		04/26/23 17:32	05/03/23 02:01	1
Manganese	0.90		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 02:01	1
Nickel	0.18		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 02:01	1
Potassium	41		2.5	0.50	mg/L		04/26/23 17:32	05/03/23 02:01	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:32	05/03/23 02:01	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 02:01	1
Zinc	0.41	J	0.50	0.020	mg/L		04/26/23 17:32	05/03/23 02:01	1

Method: SW846 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		04/26/23 17:31	04/28/23 19:23	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:32	04/27/23 14:04	1
Thallium	0.0023		0.0020	0.0020	mg/L		04/26/23 17:32	04/27/23 14:04	1

Method: SW846 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		05/01/23 12:30	05/02/23 10:19	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.018	0.0094	mg/Kg	✱	05/03/23 17:05	05/04/23 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.24		0.24	0.12	mg/Kg	✱	04/27/23 08:25	04/27/23 12:02	1
pH (SW846 9045D)	8.3		0.2	0.2	SU			04/25/23 18:00	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B196-3

Lab Sample ID: 500-232668-12

Date Collected: 04/21/23 10:50

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 84.8

Method: SW846 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	✳	04/22/23 13:13	04/26/23 16:17	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
1,1-Dichloroethene	<0.0018	*+	0.0018	0.00062	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Acetone	<0.018		0.018	0.0078	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Chloromethane	<0.0045	*+	0.0045	0.0018	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Toluene	0.0016	J	0.0018	0.00045	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	✳	04/22/23 13:13	04/26/23 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	04/22/23 13:13	04/26/23 16:17	1
4-Bromofluorobenzene (Surr)	91		75 - 131	04/22/23 13:13	04/26/23 16:17	1
Dibromofluoromethane	99		75 - 126	04/22/23 13:13	04/26/23 16:17	1
Toluene-d8 (Surr)	88		75 - 124	04/22/23 13:13	04/26/23 16:17	1

Method: SW846 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	✳	05/04/23 08:04	05/05/23 16:17	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	✳	05/04/23 08:04	05/05/23 16:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	✳	05/04/23 08:04	05/05/23 16:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	✳	05/04/23 08:04	05/05/23 16:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✳	05/04/23 08:04	05/05/23 16:17	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B196-3

Lab Sample ID: 500-232668-12

Date Collected: 04/21/23 10:50

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 84.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	05/04/23 08:04	05/05/23 16:17	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B196-3

Lab Sample ID: 500-232668-12

Date Collected: 04/21/23 10:50

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 84.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	✳	05/04/23 08:04	05/05/23 16:17	1
Isophorone	<0.19		0.19	0.042	mg/Kg	✳	05/04/23 08:04	05/05/23 16:17	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	✳	05/04/23 08:04	05/05/23 16:17	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	✳	05/04/23 08:04	05/05/23 16:17	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	✳	05/04/23 08:04	05/05/23 16:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	✳	05/04/23 08:04	05/05/23 16:17	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	✳	05/04/23 08:04	05/05/23 16:17	1
Phenanthrene	<0.037		0.037	0.0053	mg/Kg	✳	05/04/23 08:04	05/05/23 16:17	1
Phenol	<0.19		0.19	0.084	mg/Kg	✳	05/04/23 08:04	05/05/23 16:17	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	✳	05/04/23 08:04	05/05/23 16:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		31 - 143				05/04/23 08:04	05/05/23 16:17	1
2-Fluorobiphenyl	83		43 - 145				05/04/23 08:04	05/05/23 16:17	1
2-Fluorophenol	75		31 - 166				05/04/23 08:04	05/05/23 16:17	1
Nitrobenzene-d5 (Surr)	79		37 - 147				05/04/23 08:04	05/05/23 16:17	1
Phenol-d5	77		30 - 153				05/04/23 08:04	05/05/23 16:17	1
Terphenyl-d14 (Surr)	102		42 - 157				05/04/23 08:04	05/05/23 16:17	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.2	0.22	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Arsenic	7.0		0.58	0.20	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Barium	41		0.58	0.066	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Beryllium	0.88		0.23	0.054	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Boron	11		2.9	0.27	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Cadmium	0.20	B	0.12	0.021	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Calcium	61000	B	58	9.8	mg/Kg	✳	04/26/23 15:45	05/03/23 18:49	5
Chromium	16		0.58	0.29	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Cobalt	13		0.29	0.076	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Copper	19		0.58	0.16	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Iron	20000		12	6.0	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Lead	12		0.29	0.13	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Magnesium	26000		5.8	2.9	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Manganese	390		0.58	0.084	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Nickel	30		0.58	0.17	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Potassium	2600		29	10	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Selenium	<0.58		0.58	0.34	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Silver	0.39		0.29	0.074	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Sodium	150		58	8.5	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Thallium	0.30	J	0.58	0.29	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Vanadium	20		0.29	0.068	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1
Zinc	54		1.2	0.51	mg/Kg	✳	04/26/23 15:45	05/02/23 19:04	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:31	05/05/23 01:09	1
Iron	0.73		0.40	0.20	mg/L		04/26/23 17:31	05/05/23 01:09	1
Lead	0.013		0.0075	0.0075	mg/L		05/08/23 16:47	05/09/23 16:19	1
Manganese	0.60		0.025	0.010	mg/L		04/26/23 17:31	05/05/23 01:09	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B196-3

Lab Sample ID: 500-232668-12

Date Collected: 04/21/23 10:50

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 84.8

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.048	J	0.050	0.010	mg/L		04/26/23 17:32	05/03/23 02:04	1
Barium	0.35	J	0.50	0.050	mg/L		04/26/23 17:32	05/03/23 02:04	1
Beryllium	0.0049		0.0040	0.0040	mg/L		04/26/23 17:32	05/03/23 02:04	1
Boron	0.15		0.10	0.050	mg/L		04/26/23 17:32	05/03/23 02:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/26/23 17:32	05/03/23 02:04	1
Calcium	42		2.5	0.50	mg/L		04/26/23 17:32	05/03/23 02:04	1
Chromium	0.086		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 02:04	1
Cobalt	0.025		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 02:04	1
Iron	98		0.40	0.20	mg/L		04/26/23 17:32	05/03/23 02:04	1
Lead	0.046		0.0075	0.0075	mg/L		04/26/23 17:32	05/03/23 02:04	1
Manganese	0.41		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 02:04	1
Nickel	0.094		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 02:04	1
Potassium	24		2.5	0.50	mg/L		04/26/23 17:32	05/03/23 02:04	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:32	05/03/23 02:04	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 02:04	1
Zinc	0.22	J	0.50	0.020	mg/L		04/26/23 17:32	05/03/23 02:04	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:32	04/27/23 14:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/26/23 17:32	04/27/23 14:06	1

Method: SW846 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		05/01/23 12:30	05/02/23 10:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.018	0.0096	mg/Kg	⊛	05/03/23 17:05	05/04/23 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25	0.13	mg/Kg	⊛	04/27/23 08:26	04/27/23 12:04	1
pH (SW846 9045D)	8.2		0.2	0.2	SU			04/25/23 18:02	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B197

Lab Sample ID: 500-232668-13

Date Collected: 04/21/23 11:00

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 84.0

Method: SW846 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	☆	04/22/23 13:13	04/26/23 16:43	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
1,1-Dichloroethene	<0.0018	*+	0.0018	0.00063	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Acetone	<0.018		0.018	0.0080	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Chloromethane	<0.0046	*+	0.0046	0.0018	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Toluene	0.0017	J	0.0018	0.00046	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1
Xylenes, Total	<0.0037		0.0037	0.00058	mg/Kg	☆	04/22/23 13:13	04/26/23 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	04/22/23 13:13	04/26/23 16:43	1
4-Bromofluorobenzene (Surr)	90		75 - 131	04/22/23 13:13	04/26/23 16:43	1
Dibromofluoromethane	98		75 - 126	04/22/23 13:13	04/26/23 16:43	1
Toluene-d8 (Surr)	88		75 - 124	04/22/23 13:13	04/26/23 16:43	1

Method: SW846 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	☆	05/04/23 08:04	05/05/23 16:42	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☆	05/04/23 08:04	05/05/23 16:42	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☆	05/04/23 08:04	05/05/23 16:42	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☆	05/04/23 08:04	05/05/23 16:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☆	05/04/23 08:04	05/05/23 16:42	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B197

Lab Sample ID: 500-232668-13

Date Collected: 04/21/23 11:00

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 84.0

Method: SW846 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	☼	05/04/23 08:04	05/05/23 16:42	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	05/04/23 08:04	05/05/23 16:42	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B197

Lab Sample ID: 500-232668-13

Date Collected: 04/21/23 11:00

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 84.0

Method: SW846 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	☆	05/04/23 08:04	05/05/23 16:42	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☆	05/04/23 08:04	05/05/23 16:42	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☆	05/04/23 08:04	05/05/23 16:42	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☆	05/04/23 08:04	05/05/23 16:42	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☆	05/04/23 08:04	05/05/23 16:42	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☆	05/04/23 08:04	05/05/23 16:42	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☆	05/04/23 08:04	05/05/23 16:42	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☆	05/04/23 08:04	05/05/23 16:42	1
Phenol	<0.20		0.20	0.087	mg/Kg	☆	05/04/23 08:04	05/05/23 16:42	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☆	05/04/23 08:04	05/05/23 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		31 - 143				05/04/23 08:04	05/05/23 16:42	1
2-Fluorobiphenyl	78		43 - 145				05/04/23 08:04	05/05/23 16:42	1
2-Fluorophenol	72		31 - 166				05/04/23 08:04	05/05/23 16:42	1
Nitrobenzene-d5 (Surr)	74		37 - 147				05/04/23 08:04	05/05/23 16:42	1
Phenol-d5	78		30 - 153				05/04/23 08:04	05/05/23 16:42	1
Terphenyl-d14 (Surr)	106		42 - 157				05/04/23 08:04	05/05/23 16:42	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.2	0.22	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Arsenic	7.9		0.58	0.20	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Barium	50		0.58	0.066	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Beryllium	0.81		0.23	0.054	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Boron	7.9		2.9	0.27	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Cadmium	0.21	B	0.12	0.021	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Calcium	59000	B	58	9.8	mg/Kg	☆	04/26/23 15:45	05/03/23 18:52	5
Chromium	15		0.58	0.29	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Cobalt	13		0.29	0.076	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Copper	21		0.58	0.16	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Iron	20000		12	6.0	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Lead	13		0.29	0.13	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Magnesium	23000		5.8	2.9	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Manganese	350		0.58	0.084	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Nickel	30		0.58	0.17	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Potassium	2000		29	10	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Selenium	<0.58		0.58	0.34	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Silver	0.32		0.29	0.074	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Sodium	1700		58	8.5	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Thallium	<0.58		0.58	0.29	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Vanadium	19		0.29	0.068	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1
Zinc	57		1.2	0.51	mg/Kg	☆	04/26/23 15:45	05/02/23 19:07	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:31	05/05/23 01:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:31	05/05/23 01:12	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:31	05/05/23 01:12	1
Iron	0.77		0.40	0.20	mg/L		04/26/23 17:31	05/05/23 01:12	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B197

Lab Sample ID: 500-232668-13

Date Collected: 04/21/23 11:00

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 84.0

Method: SW846 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		05/08/23 16:47	05/09/23 16:22	1
Manganese	3.0		0.025	0.010	mg/L		04/26/23 17:31	05/05/23 01:12	1
Nickel	0.028		0.025	0.010	mg/L		04/26/23 17:31	05/05/23 01:12	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.15		0.050	0.010	mg/L		04/26/23 17:32	05/03/23 02:08	1
Barium	0.80		0.50	0.050	mg/L		04/26/23 17:32	05/03/23 02:08	1
Beryllium	0.014		0.0040	0.0040	mg/L		04/26/23 17:32	05/03/23 02:08	1
Boron	0.25		0.10	0.050	mg/L		04/26/23 17:32	05/03/23 02:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		04/26/23 17:32	05/03/23 02:08	1
Calcium	70		2.5	0.50	mg/L		04/26/23 17:32	05/03/23 02:08	1
Chromium	0.24		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 02:08	1
Cobalt	0.070		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 02:08	1
Iron	300		0.40	0.20	mg/L		04/26/23 17:32	05/03/23 02:08	1
Lead	0.15		0.0075	0.0075	mg/L		04/26/23 17:32	05/03/23 02:08	1
Manganese	0.91		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 02:08	1
Nickel	0.27		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 02:08	1
Potassium	55		2.5	0.50	mg/L		04/26/23 17:32	05/03/23 02:08	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:32	05/03/23 02:08	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/03/23 02:08	1
Zinc	0.73		0.50	0.020	mg/L		04/26/23 17:32	05/03/23 02:08	1

Method: SW846 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		04/26/23 17:31	04/28/23 19:25	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:32	04/27/23 14:08	1
Thallium	0.0038		0.0020	0.0020	mg/L		04/26/23 17:32	04/27/23 14:08	1

Method: SW846 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		05/01/23 12:30	05/02/23 10:27	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.019	0.0098	mg/Kg	✱	05/03/23 17:05	05/04/23 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25	0.12	mg/Kg	✱	04/28/23 08:06	04/28/23 09:52	1
pH (SW846 9045D)	9.0		0.2	0.2	SU			04/25/23 18:05	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B156

Lab Sample ID: 500-232668-23

Date Collected: 04/21/23 08:00

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 79.6

Method: SW846 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	✳	04/22/23 13:13	04/27/23 06:15	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Acetone	<0.019		0.019	0.0084	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Chloromethane	<0.0048	*	0.0048	0.0019	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Toluene	0.00072	J	0.0019	0.00048	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	✳	04/22/23 13:13	04/27/23 06:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	04/22/23 13:13	04/27/23 06:15	1
4-Bromofluorobenzene (Surr)	88		75 - 131	04/22/23 13:13	04/27/23 06:15	1
Dibromofluoromethane	99		75 - 126	04/22/23 13:13	04/27/23 06:15	1
Toluene-d8 (Surr)	89		75 - 124	04/22/23 13:13	04/27/23 06:15	1

Method: SW846 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	✳	04/27/23 13:43	04/28/23 13:49	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B156

Lab Sample ID: 500-232668-23

Date Collected: 04/21/23 08:00

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 79.6

Method: SW846 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	✳	04/27/23 13:43	04/28/23 13:49	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Benzo[b]fluoranthene	0.0097	J	0.039	0.0085	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Carbazole	<0.20		0.20	0.099	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Chrysene	<0.039		0.039	0.011	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Fluoranthene	0.0095	J	0.039	0.0073	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✳	04/27/23 13:43	04/28/23 13:49	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B156

Lab Sample ID: 500-232668-23

Date Collected: 04/21/23 08:00

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 79.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.019	J	0.039	0.010	mg/Kg	✧	04/27/23 13:43	04/28/23 13:49	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✧	04/27/23 13:43	04/28/23 13:49	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	✧	04/27/23 13:43	04/28/23 13:49	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	✧	04/27/23 13:43	04/28/23 13:49	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	✧	04/27/23 13:43	04/28/23 13:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✧	04/27/23 13:43	04/28/23 13:49	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	✧	04/27/23 13:43	04/28/23 13:49	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	✧	04/27/23 13:43	04/28/23 13:49	1
Phenol	<0.20		0.20	0.088	mg/Kg	✧	04/27/23 13:43	04/28/23 13:49	1
Pyrene	0.0096	J	0.039	0.0079	mg/Kg	✧	04/27/23 13:43	04/28/23 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	37		31 - 143				04/27/23 13:43	04/28/23 13:49	1
2-Fluorobiphenyl	67		43 - 145				04/27/23 13:43	04/28/23 13:49	1
2-Fluorophenol	67		31 - 166				04/27/23 13:43	04/28/23 13:49	1
Nitrobenzene-d5 (Surr)	68		37 - 147				04/27/23 13:43	04/28/23 13:49	1
Phenol-d5	72		30 - 153				04/27/23 13:43	04/28/23 13:49	1
Terphenyl-d14 (Surr)	88		42 - 157				04/27/23 13:43	04/28/23 13:49	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.2	0.24	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Arsenic	12		0.62	0.21	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Barium	76		0.62	0.071	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Beryllium	0.95		0.25	0.058	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Boron	6.3		3.1	0.29	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Cadmium	<0.12		0.12	0.022	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Calcium	6500	B	12	2.1	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Chromium	19		0.62	0.31	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Cobalt	14		0.31	0.081	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Copper	25		0.62	0.17	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Iron	29000	B ^2	12	6.5	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Lead	20		0.31	0.14	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Magnesium	5500		6.2	3.1	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Manganese	610	B	0.62	0.090	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Nickel	38		0.62	0.18	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Potassium	1900		31	11	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Selenium	0.46	J	0.62	0.37	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Silver	0.46		0.31	0.080	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Sodium	1900		62	9.2	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Thallium	<0.62		0.62	0.31	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Vanadium	26		0.31	0.073	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1
Zinc	87	B	1.2	0.55	mg/Kg	✧	04/26/23 15:46	04/28/23 04:20	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:32	05/05/23 02:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:32	05/05/23 02:23	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/05/23 02:23	1
Iron	2.3		0.40	0.20	mg/L		04/26/23 17:32	05/05/23 02:23	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B156

Lab Sample ID: 500-232668-23

Date Collected: 04/21/23 08:00

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 79.6

Method: SW846 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		05/08/23 16:47	05/09/23 16:42	1
Manganese	2.2		0.025	0.010	mg/L		04/26/23 17:32	05/05/23 02:23	1
Nickel	0.025		0.025	0.010	mg/L		04/26/23 17:32	05/05/23 02:23	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.14		0.050	0.010	mg/L		04/26/23 17:33	05/03/23 16:50	1
Barium	1.0		0.50	0.050	mg/L		04/26/23 17:33	05/03/23 16:50	1
Beryllium	0.015		0.0040	0.0040	mg/L		04/26/23 17:33	05/03/23 16:50	1
Boron	0.23		0.10	0.050	mg/L		04/26/23 17:33	05/03/23 16:50	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		04/26/23 17:33	05/03/23 16:50	1
Calcium	50		2.5	0.50	mg/L		04/26/23 17:33	05/03/23 16:50	1
Chromium	0.27		0.025	0.010	mg/L		04/26/23 17:33	05/03/23 16:50	1
Cobalt	0.098		0.025	0.010	mg/L		04/26/23 17:33	05/03/23 16:50	1
Iron	340		0.40	0.20	mg/L		04/26/23 17:33	05/03/23 16:50	1
Lead	0.19		0.0075	0.0075	mg/L		04/26/23 17:33	05/03/23 16:50	1
Manganese	1.8		0.025	0.010	mg/L		04/26/23 17:33	05/03/23 16:50	1
Nickel	0.36		0.025	0.010	mg/L		04/26/23 17:33	05/03/23 16:50	1
Potassium	46		2.5	0.50	mg/L		04/26/23 17:33	05/03/23 16:50	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:33	05/03/23 16:50	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:33	05/03/23 16:50	1
Zinc	1.0		0.50	0.020	mg/L		04/26/23 17:33	05/03/23 16:50	1

Method: SW846 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		04/26/23 17:32	04/28/23 19:36	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:33	04/27/23 14:42	1
Thallium	0.0053		0.0020	0.0020	mg/L		04/26/23 17:33	04/27/23 14:42	1

Method: SW846 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		05/03/23 14:10	05/04/23 13:12	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.020	0.010	mg/Kg	✱	05/03/23 17:05	05/04/23 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.16	J	0.27	0.13	mg/Kg	✱	04/28/23 08:12	04/28/23 10:16	1
pH (SW846 9045D)	8.2		0.2	0.2	SU			04/27/23 17:24	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B155

Lab Sample ID: 500-232668-24

Date Collected: 04/21/23 08:20

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 81.7

Method: SW846 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	✳	04/22/23 13:13	04/27/23 06:41	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Acetone	<0.018		0.018	0.0077	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Chloromethane	<0.0044	*	0.0044	0.0018	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Toluene	0.00076	J	0.0018	0.00044	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	✳	04/22/23 13:13	04/27/23 06:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	04/22/23 13:13	04/27/23 06:41	1
4-Bromofluorobenzene (Surr)	104		75 - 131	04/22/23 13:13	04/27/23 06:41	1
Dibromofluoromethane	98		75 - 126	04/22/23 13:13	04/27/23 06:41	1
Toluene-d8 (Surr)	92		75 - 124	04/22/23 13:13	04/27/23 06:41	1

Method: SW846 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	✳	04/27/23 13:43	04/28/23 16:20	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B155

Lab Sample ID: 500-232668-24

Date Collected: 04/21/23 08:20

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 81.7

Method: SW846 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	✳	04/27/23 13:43	04/28/23 16:20	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Acenaphthylene	0.0055	J	0.039	0.0052	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Anthracene	0.0081	J	0.039	0.0066	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Benzo[a]anthracene	0.049		0.039	0.0053	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Benzo[a]pyrene	0.056		0.039	0.0077	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Benzo[b]fluoranthene	0.072		0.039	0.0085	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Benzo[g,h,i]perylene	0.038	J	0.039	0.013	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Benzo[k]fluoranthene	0.023	J	0.039	0.012	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Carbazole	<0.20		0.20	0.099	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Chrysene	0.059		0.039	0.011	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Dibenz(a,h)anthracene	0.0091	J	0.039	0.0076	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Fluoranthene	0.088		0.039	0.0073	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✳	04/27/23 13:43	04/28/23 16:20	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B155

Lab Sample ID: 500-232668-24

Date Collected: 04/21/23 08:20

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 81.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.064		0.039	0.010	mg/Kg	✱	04/27/23 13:43	04/28/23 16:20	1
Isophorone	<0.20		0.20	0.044	mg/Kg	✱	04/27/23 13:43	04/28/23 16:20	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	✱	04/27/23 13:43	04/28/23 16:20	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	✱	04/27/23 13:43	04/28/23 16:20	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	✱	04/27/23 13:43	04/28/23 16:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	✱	04/27/23 13:43	04/28/23 16:20	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	✱	04/27/23 13:43	04/28/23 16:20	1
Phenanthrene	0.048		0.039	0.0055	mg/Kg	✱	04/27/23 13:43	04/28/23 16:20	1
Phenol	<0.20		0.20	0.088	mg/Kg	✱	04/27/23 13:43	04/28/23 16:20	1
Pyrene	0.098		0.039	0.0079	mg/Kg	✱	04/27/23 13:43	04/28/23 16:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	44		31 - 143				04/27/23 13:43	04/28/23 16:20	1
2-Fluorobiphenyl	71		43 - 145				04/27/23 13:43	04/28/23 16:20	1
2-Fluorophenol	67		31 - 166				04/27/23 13:43	04/28/23 16:20	1
Nitrobenzene-d5 (Surr)	68		37 - 147				04/27/23 13:43	04/28/23 16:20	1
Phenol-d5	72		30 - 153				04/27/23 13:43	04/28/23 16:20	1
Terphenyl-d14 (Surr)	87		42 - 157				04/27/23 13:43	04/28/23 16:20	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.23	J	1.2	0.23	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Arsenic	7.5		0.60	0.21	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Barium	71		0.60	0.068	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Beryllium	0.78		0.24	0.056	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Boron	7.9		3.0	0.28	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Cadmium	0.14		0.12	0.022	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Calcium	25000	B	12	2.0	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Chromium	14		0.60	0.30	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Cobalt	11		0.30	0.079	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Copper	19		0.60	0.17	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Iron	19000	B ^2	12	6.2	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Lead	32		0.30	0.14	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Magnesium	14000		6.0	3.0	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Manganese	460	B	0.60	0.087	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Nickel	25		0.60	0.17	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Potassium	1900		30	11	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Selenium	<0.60		0.60	0.35	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Silver	0.30		0.30	0.077	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Sodium	2100		60	8.9	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Thallium	<0.60		0.60	0.30	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Vanadium	21		0.30	0.071	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1
Zinc	81	B	1.2	0.53	mg/Kg	✱	04/26/23 15:46	04/28/23 04:24	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		04/26/23 17:32	05/05/23 02:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/26/23 17:32	05/05/23 02:27	1
Chromium	<0.025		0.025	0.010	mg/L		04/26/23 17:32	05/05/23 02:27	1
Iron	0.98		0.40	0.20	mg/L		04/26/23 17:32	05/05/23 02:27	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Client Sample ID: 2233V3-1-B155

Lab Sample ID: 500-232668-24

Date Collected: 04/21/23 08:20

Matrix: Solid

Date Received: 04/21/23 14:05

Percent Solids: 81.7

Method: SW846 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		05/08/23 16:47	05/09/23 16:52	1
Manganese	0.90		0.025	0.010	mg/L		04/26/23 17:32	05/05/23 02:27	1
Nickel	0.012	J	0.025	0.010	mg/L		04/26/23 17:32	05/05/23 02:27	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12		0.050	0.010	mg/L		04/26/23 17:33	05/03/23 16:53	1
Barium	0.81		0.50	0.050	mg/L		04/26/23 17:33	05/03/23 16:53	1
Beryllium	0.011		0.0040	0.0040	mg/L		04/26/23 17:33	05/03/23 16:53	1
Boron	0.26		0.10	0.050	mg/L		04/26/23 17:33	05/03/23 16:53	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		04/26/23 17:33	05/03/23 16:53	1
Calcium	71		2.5	0.50	mg/L		04/26/23 17:33	05/03/23 16:53	1
Chromium	0.20		0.025	0.010	mg/L		04/26/23 17:33	05/03/23 16:53	1
Cobalt	0.099		0.025	0.010	mg/L		04/26/23 17:33	05/03/23 16:53	1
Iron	250		0.40	0.20	mg/L		04/26/23 17:33	05/03/23 16:53	1
Lead	0.14		0.0075	0.0075	mg/L		04/26/23 17:33	05/03/23 16:53	1
Manganese	1.7		0.025	0.010	mg/L		04/26/23 17:33	05/03/23 16:53	1
Nickel	0.32		0.025	0.010	mg/L		04/26/23 17:33	05/03/23 16:53	1
Potassium	47		2.5	0.50	mg/L		04/26/23 17:33	05/03/23 16:53	1
Selenium	<0.050		0.050	0.020	mg/L		04/26/23 17:33	05/03/23 16:53	1
Silver	<0.025		0.025	0.010	mg/L		04/26/23 17:33	05/03/23 16:53	1
Zinc	0.83		0.50	0.020	mg/L		04/26/23 17:33	05/03/23 16:53	1

Method: SW846 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		04/26/23 17:32	04/28/23 19:39	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^1+	0.0060	0.0060	mg/L		04/26/23 17:33	04/27/23 14:48	1
Thallium	0.0034		0.0020	0.0020	mg/L		04/26/23 17:33	04/27/23 14:48	1

Method: SW846 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		05/03/23 14:10	05/04/23 13:18	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.010	mg/Kg	✱	05/03/23 17:05	05/04/23 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	✱	04/28/23 08:13	04/28/23 10:17	1
pH (SW846 9045D)	8.9		0.2	0.2	SU			04/27/23 17:27	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
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
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.

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

Eurofins Chicago

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

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Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-232668-1

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.


Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-23 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	 500-232668 COC	Laboratory Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email Jodie.Bracken@ET.EurofinsUS.com	Project Name <u>AE8-010A</u> Project No <u>PTB/WO:195-002/010A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>J. Weisbrodt</u>	COC No <u>1</u> of <u>3</u> Lab Job No.: <u>500-232668</u> Sample Temp: <u>23-21.2</u> <u>13-21.7, 5.2-7.49</u>
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Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3) run TCLP for that specific RCRA metal
 ** If SPLP result exceeds Class I Standard run TCLP for that specific parameter
 *** If total cyanide exceeds MAC run ASTM D3987 (Neutral Leach) cyanide

					ANALYSES														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization			
1	2233V3-1-B152-1	4/21/23	0900	J	X	X					X	X	X	X	X				
2	2233V3-1-B152-2		0910																
3	2233V3-1-B152-3		0920																
4	2233V3-1-B153		0930																
5	2233V3-1-B154		0940																
6	2233V3-1-B190-1		0950																
7	2233V3-1-B190-2		1000																
8	2233V3-1-B190-3		1010																
9	2233V3-1-B190-3 DNP		1020																
10	2233V3-1-B196-1		1030																
11	2233V3-1-B196-2	↓	1040	↓	↓	↓					↓	↓	↓	↓	↓				

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

Comments
 B152-1 DNP not sampled

Relinquished by <u>Jodie Bracken</u>	Date/Time <u>04/21/23</u>	Received by <u>Jodie Bracken</u>	Date/Time <u>4-21-23 1515</u>
Relinquished by <u>Jodie Bracken</u>	Date/Time <u>4/21/23 1405</u>	Received by <u>Jodie Bracken</u>	Date/Time <u>4/21/23 1405</u>
Relinquished by	Date/Time	Received by	Date/Time



CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name <u>AE8-010A</u>	COC No <u>2</u> of <u>3</u>
Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email <u>Jodie.Bracken@ET EurofinsUS.com</u>	Project No <u>PTB/WO:195-002/010A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Lab Job No.: <u>500-232668</u>
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3) run TCLP for that specific RCRA metal ** If SPLP result exceeds Class I Standard run TCLP for that specific parameter *** If total cyanide exceeds MAC run ASTM D3987 (Neutral Leach) cyanide		Analyses	Sample Temp
		Sampler: <u>J. Weisbradt</u>	

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Matrix Key:	Comments
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization		
12	2233V3-1-B196-3	4/21/23	1050	S	X	X					X	X	X	X	X			
13	2233V3-1-B197		1100															
14	2233V3-1-B195-1		1110															
15	2233V3-1-B195-2		1120															
16	2233V3-1-B195-3		1130															B195-4 not sampled
17	2233V3-1-B146-1		1140															
18	2233V3-1-B146-2		1150															
19	2233V3-1-B146-3		1200															
20	2233V3-1-B147-1		1210															
21	2233V3-1-B147-2		1220															
22	2233V3-1-B147-3	↓	1230	↓	↓	↓					↓	↓	↓	↓	↓			

Relinquished by <u>Jodie Bracken</u>	Date/Time <u>04/21/23</u>	Received by <u>Jodie Bracken</u>	Date/Time <u>4/21/23 1515</u>
Relinquished by <u>Jodie Bracken</u>	Date/Time <u>4-21-23 1605</u>	Received by <u>Jodie Bracken</u>	Date/Time <u>4/21/23 1405</u>
Relinquished by	Date/Time	Received by	Date/Time

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name <u>AE8-010A</u>	COC No
Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email <u>Jodie.Bracken@ETEurofinsUS.com</u>	Project No <u>PTB/WO:195-002/010A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	<u>3</u> of <u>3</u>
		Sampler: <u>J. Weisbrodt</u>	Lab Job No.: <u>500-232668</u>
			Sample Temp:

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3) run TCLP for that specific RCRA metal
 ** If SPLP result exceeds Class I Standard run TCLP for that specific parameter
 *** If total cyanide exceeds MAC run ASTM D3987 (Neutral Leach) cyanide

ANALYSES										pH	% Solids	Waste Characterization			
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide							
X	X					X	X	X	X	X					
X	X					X	X	X	X	X					
X	X					X	X	X	X	X					
X	X					X	X	X	X	X					
X	X					X	X	X	X	X					
X	X					X	X	X	X	X					
X	X					X	X	X	X	X					
X	X					X	X	X	X	X					
X	X					X	X	X	X	X					
X	X					X	X	X	X	X					
X	X					X	X	X	X	X					
X	X					X	X	X	X	X					
X	X					X	X	X	X	X					
X	X					X	X	X	X	X					

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization			Comments
23	2233V3-1-B156	4/21/23	0800	S	X	X					X	X	X	X	X				
24	2233V3-1-B155		0820	S	X	X					X	X	X	X	X				
25	2233V3-1-B148-1		1240	S	X	X					X	X	X	X	X				
26	2233V3-1-B148-2		1250	S	X	X					X	X	X	X	X				
27	2233V3-1-B148-3		1300	S	X	X					X	X	X	X	X				
28	2233V3-1-B148-3 DUP		1310	S	X	X					X	X	X	X	X				
29	Trip Blank #3			S	X	X					X	X	X	X	X				

Relinquished by <u>Jodie Bracken</u>	Date/Time <u>4/21/23</u>	Received by <u>Dr. J. Weisbrodt</u>	Date/Time <u>4/21/23 1515</u>
Relinquished by <u>Dr. J. Weisbrodt</u>	Date/Time <u>4/21/23 1605</u>	Received by <u>Jodie Bracken</u>	Date/Time <u>4/21/23 1405</u>
Relinquished by	Date/Time	Received by	Date/Time

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Ms. Colleen Grey
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Generated 5/16/2023 4:38:31 PM

JOB DESCRIPTION

IDOT - AE8-010

JOB NUMBER

500-233038-1

Eurofins Chicago

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Authorized for release by
Jodie Bracken, Project Management Assistant II
Jodie.Bracken@et.eurofinsus.com
(708)534-5200

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233038-1

Client Sample ID: 2233V3-1-B189-1

Lab Sample ID: 500-233038-14

Date Collected: 04/27/23 11:10

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 84.1

Method: SW846 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	☆	04/29/23 06:20	05/02/23 15:36	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Acetone	<0.019		0.019	0.0081	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Chloromethane	<0.0047	*	0.0047	0.0019	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	☆	04/29/23 06:20	05/02/23 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	04/29/23 06:20	05/02/23 15:36	1
4-Bromofluorobenzene (Surr)	93		75 - 131	04/29/23 06:20	05/02/23 15:36	1
Dibromofluoromethane	98		75 - 126	04/29/23 06:20	05/02/23 15:36	1
Toluene-d8 (Surr)	91		75 - 124	04/29/23 06:20	05/02/23 15:36	1

Method: SW846 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	0.027	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233038-1

Client Sample ID: 2233V3-1-B189-1

Lab Sample ID: 500-233038-14

Date Collected: 04/27/23 11:10

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 84.1

Method: SW846 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	0.014	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
2,4-Dinitrophenol	<0.76		0.76	0.22	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
2-Methylnaphthalene	<0.076		0.076	0.0076	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.21	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
4-Chloroaniline	<0.76		0.76	0.40	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
4-Nitrophenol	<0.76		0.76	0.14	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Acenaphthene	<0.038		0.038	0.0077	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Acenaphthylene	<0.038		0.038	0.0064	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Anthracene	<0.038		0.038	0.0077	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Benzo[a]pyrene	<0.038		0.038	0.037	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Benzo[g,h,i]perylene	<0.038		0.038	0.0082	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Benzo[k]fluoranthene	<0.038		0.038	0.014	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Dimethyl phthalate	<0.19		0.19	0.0082	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Di-n-octyl phthalate	<0.38		0.38	0.26	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Fluoranthene	<0.038		0.038	0.0088	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Hexachlorobenzene	<0.076		0.076	0.0073	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Hexachlorocyclopentadiene	<0.76		0.76	0.40	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	05/04/23 13:05	05/05/23 16:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233038-1

Client Sample ID: 2233V3-1-B189-1

Lab Sample ID: 500-233038-14

Date Collected: 04/27/23 11:10

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 84.1

Method: SW846 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	0.037	mg/Kg	✳	05/04/23 13:05	05/05/23 16:48	1
Isophorone	<0.19		0.19	0.020	mg/Kg	✳	05/04/23 13:05	05/05/23 16:48	1
Naphthalene	<0.038		0.038	0.0068	mg/Kg	✳	05/04/23 13:05	05/05/23 16:48	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	✳	05/04/23 13:05	05/05/23 16:48	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.0075	mg/Kg	✳	05/04/23 13:05	05/05/23 16:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	✳	05/04/23 13:05	05/05/23 16:48	1
Pentachlorophenol	<0.76		0.76	0.095	mg/Kg	✳	05/04/23 13:05	05/05/23 16:48	1
Phenanthrene	<0.038		0.038	0.0082	mg/Kg	✳	05/04/23 13:05	05/05/23 16:48	1
Phenol	<0.19		0.19	0.016	mg/Kg	✳	05/04/23 13:05	05/05/23 16:48	1
Pyrene	<0.038		0.038	0.010	mg/Kg	✳	05/04/23 13:05	05/05/23 16:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		31 - 166				05/04/23 13:05	05/05/23 16:48	1
Phenol-d5	70		30 - 153				05/04/23 13:05	05/05/23 16:48	1
Nitrobenzene-d5 (Surr)	64		37 - 147				05/04/23 13:05	05/05/23 16:48	1
2-Fluorobiphenyl	71		43 - 145				05/04/23 13:05	05/05/23 16:48	1
2,4,6-Tribromophenol	71		31 - 143				05/04/23 13:05	05/05/23 16:48	1
Terphenyl-d14 (Surr)	87		42 - 157				05/04/23 13:05	05/05/23 16:48	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.1	0.22	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Arsenic	9.1		0.57	0.20	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Barium	65		0.57	0.065	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Beryllium	0.71		0.23	0.054	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Boron	6.4		2.9	0.27	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Cadmium	0.030	J	0.11	0.021	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Calcium	44000		57	9.7	mg/Kg	✳	05/01/23 16:33	05/09/23 23:36	5
Chromium	13		0.57	0.28	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Cobalt	10		0.29	0.075	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Copper	23		0.57	0.16	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Iron	22000		12	6.2	mg/Kg	✳	05/10/23 16:04	05/12/23 21:26	1
Lead	15		0.29	0.13	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Magnesium	19000	B	5.7	2.8	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Manganese	600		0.57	0.083	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Nickel	26		0.57	0.17	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Potassium	1200		29	10	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Selenium	<0.57		0.57	0.34	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Silver	0.37		0.29	0.074	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Sodium	1000		57	8.5	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Thallium	<0.57		0.57	0.29	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Vanadium	19		0.29	0.068	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1
Zinc	84		1.1	0.50	mg/Kg	✳	05/01/23 16:33	05/09/23 00:05	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		05/04/23 17:27	05/12/23 05:18	1
Lead	0.0095		0.0075	0.0075	mg/L		05/04/23 17:27	05/12/23 05:18	1
Manganese	3.4		0.025	0.010	mg/L		05/04/23 17:27	05/12/23 05:18	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233038-1

Client Sample ID: 2233V3-1-B189-1

Lab Sample ID: 500-233038-14

Date Collected: 04/27/23 11:10

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 84.1

Method: SW846 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		05/03/23 17:47	05/15/23 17:06	1
Barium	0.37	J	0.50	0.050	mg/L		05/03/23 17:47	05/15/23 17:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/23 17:47	05/15/23 17:06	1
Boron	0.071	J	0.10	0.050	mg/L		05/03/23 17:47	05/15/23 17:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:47	05/15/23 17:06	1
Calcium	21		2.5	0.50	mg/L		05/03/23 17:47	05/15/23 17:06	1
Chromium	0.068		0.025	0.010	mg/L		05/03/23 17:47	05/15/23 17:06	1
Cobalt	0.028		0.025	0.010	mg/L		05/03/23 17:47	05/15/23 17:06	1
Iron	83		0.40	0.20	mg/L		05/03/23 17:47	05/15/23 17:06	1
Lead	0.038		0.0075	0.0075	mg/L		05/03/23 17:47	05/15/23 17:06	1
Manganese	0.79		0.025	0.010	mg/L		05/03/23 17:47	05/15/23 17:06	1
Nickel	0.079		0.025	0.010	mg/L		05/03/23 17:47	05/15/23 17:06	1
Potassium	8.8		2.5	0.50	mg/L		05/03/23 17:47	05/15/23 17:06	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:47	05/15/23 17:06	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:47	05/15/23 17:06	1
Zinc	0.25	J	0.50	0.020	mg/L		05/03/23 17:47	05/15/23 17:06	1

Method: SW846 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		05/03/23 17:47	05/08/23 15:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/23 17:47	05/08/23 15:46	1

Method: SW846 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		05/10/23 11:40	05/11/23 11:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0096	mg/Kg	⊛	05/10/23 16:35	05/11/23 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	⊛	05/03/23 08:05	05/03/23 10:38	1
pH (SW846 9045D)	7.3		0.2	0.2	SU			05/04/23 15:57	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233038-1

Client Sample ID: 2233V3-1-B189-2

Lab Sample ID: 500-233038-15

Date Collected: 04/27/23 11:20

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 83.7

Method: SW846 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	☆	04/29/23 06:20	05/02/23 16:02	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
2-Butanone (MEK)	0.0060		0.0048	0.0021	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Acetone	0.039		0.019	0.0083	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Chloromethane	<0.0048	*	0.0048	0.0019	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Toluene	0.0014	J	0.0019	0.00048	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☆	04/29/23 06:20	05/02/23 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	04/29/23 06:20	05/02/23 16:02	1
4-Bromofluorobenzene (Surr)	91		75 - 131	04/29/23 06:20	05/02/23 16:02	1
Dibromofluoromethane	98		75 - 126	04/29/23 06:20	05/02/23 16:02	1
Toluene-d8 (Surr)	92		75 - 124	04/29/23 06:20	05/02/23 16:02	1

Method: SW846 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	0.027	mg/Kg	☆	05/04/23 13:05	05/05/23 18:51	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	05/04/23 13:05	05/05/23 18:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	05/04/23 13:05	05/05/23 18:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	05/04/23 13:05	05/05/23 18:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	05/04/23 13:05	05/05/23 18:51	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233038-1

Client Sample ID: 2233V3-1-B189-2

Lab Sample ID: 500-233038-15

Date Collected: 04/27/23 11:20

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 83.7

Method: SW846 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	0.014	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
2,4-Dinitrophenol	<0.77		0.77	0.22	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
2-Methylnaphthalene	0.016	J	0.077	0.0076	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.21	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
4-Chloroaniline	<0.77		0.77	0.40	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
4-Nitrophenol	<0.77		0.77	0.14	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Acenaphthene	0.014	J	0.038	0.0077	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Acenaphthylene	0.023	J	0.038	0.0065	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Anthracene	0.032	J	0.038	0.0078	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Benzo[a]anthracene	0.062		0.038	0.0081	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Benzo[a]pyrene	0.082		0.038	0.037	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Benzo[b]fluoranthene	0.082		0.038	0.036	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Benzo[g,h,i]perylene	0.036	J	0.038	0.0082	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Benzo[k]fluoranthene	0.024	J	0.038	0.014	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Carbazole	0.015	J	0.19	0.015	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Chrysene	0.052		0.038	0.010	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Dibenz(a,h)anthracene	0.047		0.038	0.038	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Dibenzofuran	0.036	J	0.19	0.014	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Dimethyl phthalate	<0.19		0.19	0.0083	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Fluoranthene	0.12		0.038	0.0088	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Fluorene	0.056		0.038	0.011	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Hexachlorobenzene	<0.077		0.077	0.0073	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Hexachlorocyclopentadiene	<0.77		0.77	0.40	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	✳	05/04/23 13:05	05/05/23 18:51	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233038-1

Client Sample ID: 2233V3-1-B189-2

Lab Sample ID: 500-233038-15

Date Collected: 04/27/23 11:20

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 83.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.065		0.038	0.037	mg/Kg	☆	05/04/23 13:05	05/05/23 18:51	1
Isophorone	<0.19		0.19	0.020	mg/Kg	☆	05/04/23 13:05	05/05/23 18:51	1
Naphthalene	0.035	J	0.038	0.0069	mg/Kg	☆	05/04/23 13:05	05/05/23 18:51	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☆	05/04/23 13:05	05/05/23 18:51	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.0075	mg/Kg	☆	05/04/23 13:05	05/05/23 18:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	☆	05/04/23 13:05	05/05/23 18:51	1
Pentachlorophenol	<0.77		0.77	0.095	mg/Kg	☆	05/04/23 13:05	05/05/23 18:51	1
Phenanthrene	0.12		0.038	0.0083	mg/Kg	☆	05/04/23 13:05	05/05/23 18:51	1
Phenol	<0.19		0.19	0.017	mg/Kg	☆	05/04/23 13:05	05/05/23 18:51	1
Pyrene	0.10		0.038	0.010	mg/Kg	☆	05/04/23 13:05	05/05/23 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		31 - 166	05/04/23 13:05	05/05/23 18:51	1
Phenol-d5	83		30 - 153	05/04/23 13:05	05/05/23 18:51	1
Nitrobenzene-d5 (Surr)	78		37 - 147	05/04/23 13:05	05/05/23 18:51	1
2-Fluorobiphenyl	84		43 - 145	05/04/23 13:05	05/05/23 18:51	1
2,4,6-Tribromophenol	80		31 - 143	05/04/23 13:05	05/05/23 18:51	1
Terphenyl-d14 (Surr)	98		42 - 157	05/04/23 13:05	05/05/23 18:51	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Arsenic	8.7		0.59	0.20	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Barium	85		0.59	0.068	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Beryllium	0.81		0.24	0.055	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Boron	5.2		3.0	0.28	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Calcium	14000		12	2.0	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Chromium	15		0.59	0.29	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Cobalt	12		0.30	0.078	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Copper	18		0.59	0.17	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Iron	20000		12	6.1	mg/Kg	☆	05/10/23 16:04	05/12/23 21:29	1
Lead	16		0.30	0.14	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Magnesium	8600	B	5.9	2.9	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Manganese	290		0.59	0.086	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Nickel	24		0.59	0.17	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Potassium	1100		30	11	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Selenium	<0.59		0.59	0.35	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Silver	0.42		0.30	0.077	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Sodium	330		59	8.8	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Thallium	<0.59		0.59	0.30	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Vanadium	25		0.30	0.070	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1
Zinc	71		1.2	0.52	mg/Kg	☆	05/01/23 16:33	05/09/23 00:09	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.21	B	0.20	0.20	mg/L		05/04/23 17:27	05/12/23 05:22	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233038-1

Client Sample ID: 2233V3-1-B189-2

Lab Sample ID: 500-233038-15

Date Collected: 04/27/23 11:20

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 83.7

Method: SW846 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		05/03/23 17:47	05/15/23 17:09	1
Barium	0.078	J	0.50	0.050	mg/L		05/03/23 17:47	05/15/23 17:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/23 17:47	05/15/23 17:09	1
Boron	0.051	J	0.10	0.050	mg/L		05/03/23 17:47	05/15/23 17:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:47	05/15/23 17:09	1
Calcium	18		2.5	0.50	mg/L		05/03/23 17:47	05/15/23 17:09	1
Chromium	0.012	J	0.025	0.010	mg/L		05/03/23 17:47	05/15/23 17:09	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/23 17:47	05/15/23 17:09	1
Iron	14		0.40	0.20	mg/L		05/03/23 17:47	05/15/23 17:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/23 17:47	05/15/23 17:09	1
Manganese	0.13		0.025	0.010	mg/L		05/03/23 17:47	05/15/23 17:09	1
Nickel	<0.025		0.025	0.010	mg/L		05/03/23 17:47	05/15/23 17:09	1
Potassium	2.5		2.5	0.50	mg/L		05/03/23 17:47	05/15/23 17:09	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:47	05/15/23 17:09	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:47	05/15/23 17:09	1
Zinc	0.031	J	0.50	0.020	mg/L		05/03/23 17:47	05/15/23 17:09	1

Method: SW846 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		05/03/23 17:47	05/08/23 15:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/23 17:47	05/08/23 15:48	1

Method: SW846 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		05/10/23 11:40	05/11/23 11:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.018	0.0096	mg/Kg	⊛	05/10/23 16:35	05/11/23 10:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.16	J	0.27	0.14	mg/Kg	⊛	05/03/23 08:06	05/03/23 10:40	1
pH (SW846 9045D)	7.1		0.2	0.2	SU			05/04/23 15:59	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233038-1

Client Sample ID: 2233V3-1-B189-3

Lab Sample ID: 500-233038-16

Date Collected: 04/27/23 11:30

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 80.6

Method: SW846 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	✳	04/29/23 06:20	05/02/23 16:27	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
2-Butanone (MEK)	0.0024	J	0.0047	0.0021	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Acetone	0.027		0.019	0.0083	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Carbon disulfide	<0.0047		0.0047	0.00099	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Chloromethane	<0.0047	*	0.0047	0.0019	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Toluene	0.0012	J	0.0019	0.00048	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	✳	04/29/23 06:20	05/02/23 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	04/29/23 06:20	05/02/23 16:27	1
4-Bromofluorobenzene (Surr)	97		75 - 131	04/29/23 06:20	05/02/23 16:27	1
Dibromofluoromethane	96		75 - 126	04/29/23 06:20	05/02/23 16:27	1
Toluene-d8 (Surr)	88		75 - 124	04/29/23 06:20	05/02/23 16:27	1

Method: SW846 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	0.028	mg/Kg	✳	05/04/23 13:05	05/05/23 17:13	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	✳	05/04/23 13:05	05/05/23 17:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	✳	05/04/23 13:05	05/05/23 17:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	✳	05/04/23 13:05	05/05/23 17:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	✳	05/04/23 13:05	05/05/23 17:13	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233038-1

Client Sample ID: 2233V3-1-B189-3

Lab Sample ID: 500-233038-16

Date Collected: 04/27/23 11:30

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 80.6

Method: SW846 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	0.015	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
2,4,6-Trichlorophenol	<0.39		0.39	0.013	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
2,4-Dimethylphenol	<0.39		0.39	0.088	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
2,4-Dinitrophenol	<0.80		0.80	0.23	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.022	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
2-Methylnaphthalene	<0.080		0.080	0.0079	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
2-Nitrophenol	<0.39		0.39	0.027	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.22	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
4-Chloroaniline	<0.80		0.80	0.41	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
4-Nitrophenol	<0.80		0.80	0.15	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Acenaphthene	<0.039		0.039	0.0080	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Acenaphthylene	<0.039		0.039	0.0067	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Anthracene	<0.039		0.039	0.0081	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Benzo[a]anthracene	<0.039		0.039	0.0084	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Benzo[a]pyrene	<0.039		0.039	0.038	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Benzo[b]fluoranthene	<0.039		0.039	0.038	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Benzo[g,h,i]perylene	<0.039		0.039	0.0086	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Benzo[k]fluoranthene	<0.039		0.039	0.015	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.15	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Carbazole	<0.20		0.20	0.016	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Chrysene	<0.039		0.039	0.010	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Dimethyl phthalate	<0.20		0.20	0.0086	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Di-n-butyl phthalate	<0.20		0.20	0.012	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Di-n-octyl phthalate	<0.39		0.39	0.28	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Fluoranthene	<0.039		0.039	0.0092	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Fluorene	<0.039		0.039	0.012	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Hexachlorobenzene	<0.080		0.080	0.0076	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Hexachlorocyclopentadiene	<0.80		0.80	0.42	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233038-1

Client Sample ID: 2233V3-1-B189-3

Lab Sample ID: 500-233038-16

Date Collected: 04/27/23 11:30

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 80.6

Method: SW846 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	0.038	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Isophorone	<0.20		0.20	0.020	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Naphthalene	<0.039		0.039	0.0071	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.0078	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.023	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Pentachlorophenol	<0.80		0.80	0.099	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Phenanthrene	<0.039		0.039	0.0086	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Phenol	<0.20		0.20	0.017	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1
Pyrene	<0.039		0.039	0.011	mg/Kg	☆	05/04/23 13:05	05/05/23 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		31 - 166	05/04/23 13:05	05/05/23 17:13	1
Phenol-d5	76		30 - 153	05/04/23 13:05	05/05/23 17:13	1
Nitrobenzene-d5 (Surr)	72		37 - 147	05/04/23 13:05	05/05/23 17:13	1
2-Fluorobiphenyl	76		43 - 145	05/04/23 13:05	05/05/23 17:13	1
2,4,6-Tribromophenol	74		31 - 143	05/04/23 13:05	05/05/23 17:13	1
Terphenyl-d14 (Surr)	93		42 - 157	05/04/23 13:05	05/05/23 17:13	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Arsenic	10		0.61	0.21	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Barium	95		0.61	0.069	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Beryllium	0.90		0.24	0.057	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Boron	5.6		3.0	0.28	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Calcium	14000		12	2.1	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Chromium	18		0.61	0.30	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Cobalt	12		0.30	0.080	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Copper	20		0.61	0.17	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Iron	21000		12	6.4	mg/Kg	☆	05/10/23 16:04	05/12/23 21:32	1
Lead	15		0.30	0.14	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Magnesium	8800 B		6.1	3.0	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Manganese	310		0.61	0.088	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Nickel	28		0.61	0.18	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Potassium	1300		30	11	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Selenium	0.43 J		0.61	0.36	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Silver	0.52		0.30	0.078	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Sodium	130		61	9.0	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Thallium	0.33 J		0.61	0.30	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Vanadium	28		0.30	0.072	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1
Zinc	66		1.2	0.53	mg/Kg	☆	05/01/23 16:33	05/09/23 00:12	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.25 B		0.20	0.20	mg/L		05/04/23 17:27	05/12/23 05:25	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233038-1

Client Sample ID: 2233V3-1-B189-3

Lab Sample ID: 500-233038-16

Date Collected: 04/27/23 11:30

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 80.6

Method: SW846 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		05/03/23 17:47	05/15/23 17:13	1
Barium	0.090	J	0.50	0.050	mg/L		05/03/23 17:47	05/15/23 17:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/03/23 17:47	05/15/23 17:13	1
Boron	0.061	J	0.10	0.050	mg/L		05/03/23 17:47	05/15/23 17:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:47	05/15/23 17:13	1
Calcium	16		2.5	0.50	mg/L		05/03/23 17:47	05/15/23 17:13	1
Chromium	0.014	J	0.025	0.010	mg/L		05/03/23 17:47	05/15/23 17:13	1
Cobalt	<0.025		0.025	0.010	mg/L		05/03/23 17:47	05/15/23 17:13	1
Iron	14		0.40	0.20	mg/L		05/03/23 17:47	05/15/23 17:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/03/23 17:47	05/15/23 17:13	1
Manganese	0.13		0.025	0.010	mg/L		05/03/23 17:47	05/15/23 17:13	1
Nickel	0.012	J	0.025	0.010	mg/L		05/03/23 17:47	05/15/23 17:13	1
Potassium	3.2		2.5	0.50	mg/L		05/03/23 17:47	05/15/23 17:13	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:47	05/15/23 17:13	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:47	05/15/23 17:13	1
Zinc	0.035	J	0.50	0.020	mg/L		05/03/23 17:47	05/15/23 17:13	1

Method: SW846 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		05/03/23 17:47	05/08/23 15:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/03/23 17:47	05/08/23 15:51	1

Method: SW846 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		05/10/23 11:40	05/11/23 11:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.018	0.0097	mg/Kg	⊛	05/10/23 16:35	05/11/23 10:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26	0.13	mg/Kg	⊛	05/03/23 08:07	05/03/23 10:42	1
pH (SW846 9045D)	7.4		0.2	0.2	SU			05/04/23 16:01	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233038-1

Client Sample ID: 2233V3-1-B188-1

Lab Sample ID: 500-233038-17

Date Collected: 04/27/23 11:40

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 85.2

Method: SW846 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	☼	04/29/23 06:20	05/02/23 16:53	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
2-Butanone (MEK)	0.0042	J	0.0045	0.0020	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Acetone	0.029		0.018	0.0078	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Chloromethane	<0.0045	*+	0.0045	0.0018	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Toluene	0.00064	J	0.0018	0.00045	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	04/29/23 06:20	05/02/23 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	04/29/23 06:20	05/02/23 16:53	1
4-Bromofluorobenzene (Surr)	93		75 - 131	04/29/23 06:20	05/02/23 16:53	1
Dibromofluoromethane	99		75 - 126	04/29/23 06:20	05/02/23 16:53	1
Toluene-d8 (Surr)	89		75 - 124	04/29/23 06:20	05/02/23 16:53	1

Method: SW846 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	0.027	mg/Kg	☼	05/04/23 13:05	05/05/23 19:16	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☼	05/04/23 13:05	05/05/23 19:16	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☼	05/04/23 13:05	05/05/23 19:16	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☼	05/04/23 13:05	05/05/23 19:16	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☼	05/04/23 13:05	05/05/23 19:16	1

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Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233038-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

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.

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.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
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
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.
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)

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233038-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

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Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233038-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-23 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name <u>AF8-010A</u>	COC No <u>2</u> of <u>3</u>
Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email Jodie.Bracken@ET EurofinsUS.com	Project No <u>PTB/WO:195-002/010A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Lab Job No.: <u>500-23038</u>
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3) run TCLP for that specific RCRA metal ** If SPLP result exceeds Class I Standard run TCLP for that specific parameter *** If total cyanide exceeds MAC run ASTM D3987 (Neutral Leach) cyanide		Analyses	Sample Temp.
		Sampler: <u>J. Weisbradt</u>	

	ANALYSES																	
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>VOCs</td> <td>SVOCs</td> <td>BETX & MTBE</td> <td>PNAS</td> <td>Pesticides</td> <td>PCBs</td> <td>* Total Metals</td> <td>SPLP/** TCLP Metals</td> <td>*** Cyanide</td> <td>pH</td> <td>% Solids</td> <td>Waste Characterization</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization					Matrix Key: W Water S Soil SL Sludge S Sediment L Leachate DW Drinking Water OL Oil O Other
VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization							

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	Comments
12	2233V3-1-B191-2	4/27/23	1050	J	X	X					X	X	X	X	X		
13	2233V3-1-B191-3		1100														
14	2233V3-1-B189-1		1100														
15	2233V3-1-B189-2		1120														
16	2233V3-1-B189-3		1130														
17	2233V3-1-B188-1		1140														
18	2233V3-1-B188-2		1150														
19	2233V3-1-B188-3		1200														
	2233V3-1-B187-1		1210														
	2233V3-1-B187-2		1220														
	2233V3-1-B187-2 DUP	↓	1230	↓	↓	↓					↓	↓	↓	↓	↓		

Relinquished by <u>Jodie Weisbradt</u>	Date/Time <u>04/28/23</u>	Received by <u>[Signature]</u>	Date/Time <u>4/28/23 1105</u>
Relinquished by <u>[Signature]</u>	Date/Time <u>4/28/23 1210</u>	Received by <u>[Signature]</u>	Date/Time <u>4/28/23 1210</u>
Relinquished by	Date/Time	Received by	Date/Time



ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Colleen Grey
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Generated 5/17/2023 6:17:01 PM

JOB DESCRIPTION

IDOT - AE8-010

JOB NUMBER

500-233039-1

Eurofins Chicago

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Authorized for release by
Jodie Bracken, Project Management Assistant II
Jodie.Bracken@et.eurofinsus.com
(708)534-5200

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B186-1

Lab Sample ID: 500-233039-5

Date Collected: 04/27/23 12:50

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 82.5

Method: SW846 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	✳	04/29/23 06:20	05/02/23 19:52	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
2-Butanone (MEK)	0.0033	J	0.0047	0.0021	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Acetone	0.021		0.019	0.0082	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Chloromethane	<0.0047	*	0.0047	0.0019	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Toluene	0.0012	J	0.0019	0.00047	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	✳	04/29/23 06:20	05/02/23 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	04/29/23 06:20	05/02/23 19:52	1
4-Bromofluorobenzene (Surr)	92		75 - 131	04/29/23 06:20	05/02/23 19:52	1
Dibromofluoromethane	96		75 - 126	04/29/23 06:20	05/02/23 19:52	1
Toluene-d8 (Surr)	91		75 - 124	04/29/23 06:20	05/02/23 19:52	1

Method: SW846 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	0.028	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
1,2-Dichlorobenzene	<0.19		0.19	0.016	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.028	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B186-1

Lab Sample ID: 500-233039-5

Date Collected: 04/27/23 12:50

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 82.5

Method: SW846 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	0.015	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
2,4-Dichlorophenol	<0.38		0.38	0.014	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
2,4-Dimethylphenol	<0.38		0.38	0.087	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
2,4-Dinitrophenol	<0.78		0.78	0.22	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
2-Methylnaphthalene	0.025	J	0.078	0.0078	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
2-Nitroaniline	<0.19		0.19	0.021	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
3-Nitroaniline	<0.38		0.38	0.018	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.22	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
4-Chloroaniline	<0.78		0.78	0.41	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
4-Nitroaniline	<0.38		0.38	0.029	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
4-Nitrophenol	<0.78		0.78	0.14	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Acenaphthene	0.0081	J	0.038	0.0079	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Acenaphthylene	<0.038		0.038	0.0066	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Anthracene	0.014	J	0.038	0.0079	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Benzo[a]anthracene	0.058		0.038	0.0082	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Benzo[a]pyrene	0.071		0.038	0.037	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Benzo[b]fluoranthene	0.11		0.038	0.037	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Benzo[g,h,i]perylene	0.075		0.038	0.0084	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Benzo[k]fluoranthene	0.050		0.038	0.015	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Carbazole	<0.19		0.19	0.015	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Chrysene	0.11		0.038	0.010	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Dibenzofuran	<0.19		0.19	0.014	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Diethyl phthalate	<0.19		0.19	0.018	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Dimethyl phthalate	<0.19		0.19	0.0084	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Fluoranthene	0.11		0.038	0.0090	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Fluorene	0.011	J	0.038	0.011	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Hexachlorobenzene	<0.078		0.078	0.0074	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Hexachlorobutadiene	<0.19		0.19	0.022	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Hexachlorocyclopentadiene	<0.78		0.78	0.41	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	✳	05/05/23 10:13	05/08/23 18:57	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B186-1

Lab Sample ID: 500-233039-5

Date Collected: 04/27/23 12:50

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 82.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.059		0.038	0.038	mg/Kg	✱	05/05/23 10:13	05/08/23 18:57	1
Isophorone	<0.19		0.19	0.020	mg/Kg	✱	05/05/23 10:13	05/08/23 18:57	1
Naphthalene	0.046		0.038	0.0070	mg/Kg	✱	05/05/23 10:13	05/08/23 18:57	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	✱	05/05/23 10:13	05/08/23 18:57	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.0076	mg/Kg	✱	05/05/23 10:13	05/08/23 18:57	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	✱	05/05/23 10:13	05/08/23 18:57	1
Pentachlorophenol	<0.78		0.78	0.097	mg/Kg	✱	05/05/23 10:13	05/08/23 18:57	1
Phenanthrene	0.057		0.038	0.0084	mg/Kg	✱	05/05/23 10:13	05/08/23 18:57	1
Phenol	<0.19		0.19	0.017	mg/Kg	✱	05/05/23 10:13	05/08/23 18:57	1
Pyrene	0.14		0.038	0.011	mg/Kg	✱	05/05/23 10:13	05/08/23 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		31 - 166	05/05/23 10:13	05/08/23 18:57	1
Phenol-d5	61		30 - 153	05/05/23 10:13	05/08/23 18:57	1
Nitrobenzene-d5 (Surr)	59		37 - 147	05/05/23 10:13	05/08/23 18:57	1
2-Fluorobiphenyl	83		43 - 145	05/05/23 10:13	05/08/23 18:57	1
2,4,6-Tribromophenol	73		31 - 143	05/05/23 10:13	05/08/23 18:57	1
Terphenyl-d14 (Surr)	82		42 - 157	05/05/23 10:13	05/08/23 18:57	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.2	0.23	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Arsenic	8.1		0.59	0.20	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Barium	100		0.59	0.068	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Beryllium	0.85		0.24	0.055	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Boron	8.5		3.0	0.28	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Cadmium	0.38		0.12	0.021	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Calcium	19000	B	12	2.0	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Chromium	14		0.59	0.29	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Cobalt	11		0.30	0.078	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Copper	22		0.59	0.17	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Iron	17000		12	6.2	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Lead	61		0.30	0.14	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Magnesium	11000		5.9	2.9	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Manganese	390		0.59	0.086	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Nickel	21		0.59	0.17	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Potassium	1100		30	11	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Selenium	0.50	J	0.59	0.35	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Silver	0.31		0.30	0.077	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Sodium	1100		59	8.8	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Thallium	<0.59		0.59	0.30	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Vanadium	23		0.30	0.070	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1
Zinc	160		1.2	0.52	mg/Kg	✱	05/02/23 15:49	05/16/23 23:29	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.013	J	0.050	0.010	mg/L		05/04/23 17:27	05/08/23 23:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:27	05/08/23 23:58	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:27	05/08/23 23:58	1
Iron	1.6	B	0.40	0.20	mg/L		05/04/23 17:27	05/08/23 23:58	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B186-1

Lab Sample ID: 500-233039-5

Date Collected: 04/27/23 12:50

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 82.5

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.013		0.0075	0.0075	mg/L		05/04/23 17:27	05/08/23 23:58	1
Manganese	7.7		0.025	0.010	mg/L		05/04/23 17:27	05/08/23 23:58	1
Nickel	0.014	J	0.025	0.010	mg/L		05/04/23 17:27	05/08/23 23:58	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13		0.050	0.010	mg/L		05/03/23 17:48	05/12/23 03:13	1
Barium	1.3		0.50	0.050	mg/L		05/03/23 17:48	05/12/23 03:13	1
Beryllium	0.0093		0.0040	0.0040	mg/L		05/03/23 17:48	05/12/23 03:13	1
Boron	0.17		0.10	0.050	mg/L		05/03/23 17:48	05/12/23 17:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/12/23 03:13	1
Calcium	43	B	2.5	0.50	mg/L		05/03/23 17:48	05/12/23 03:13	1
Chromium	0.22		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:13	1
Cobalt	0.13		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:13	1
Iron	290		0.40	0.20	mg/L		05/03/23 17:48	05/12/23 17:38	1
Lead	0.32		0.0075	0.0075	mg/L		05/03/23 17:48	05/12/23 03:13	1
Manganese	3.0		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 17:38	1
Nickel	0.34		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:13	1
Potassium	24		2.5	0.50	mg/L		05/03/23 17:48	05/12/23 03:13	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/12/23 03:13	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:13	1
Zinc	1.2		0.50	0.020	mg/L		05/03/23 17:48	05/12/23 03:13	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:27	05/08/23 18:13	1

Method: SW846 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		05/03/23 17:48	05/04/23 23:10	1
Thallium	0.0058		0.0020	0.0020	mg/L		05/03/23 17:48	05/04/23 23:10	1

Method: SW846 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		05/09/23 12:35	05/10/23 11:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0094	mg/Kg	✱	05/10/23 16:35	05/11/23 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.23	J	0.26	0.13	mg/Kg	✱	05/03/23 08:18	05/03/23 11:12	1
pH (SW846 9045D)	8.2		0.2	0.2	SU			05/04/23 16:26	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B186-2

Lab Sample ID: 500-233039-6

Date Collected: 04/27/23 13:00

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 75.7

Method: SW846 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	✱	04/29/23 06:20	05/02/23 20:18	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Acetone	0.011	J	0.020	0.0087	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Chloromethane	<0.0050	*+	0.0050	0.0020	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Toluene	0.00053	J	0.0020	0.00050	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	✱	04/29/23 06:20	05/02/23 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	04/29/23 06:20	05/02/23 20:18	1
4-Bromofluorobenzene (Surr)	92		75 - 131	04/29/23 06:20	05/02/23 20:18	1
Dibromofluoromethane	100		75 - 126	04/29/23 06:20	05/02/23 20:18	1
Toluene-d8 (Surr)	90		75 - 124	04/29/23 06:20	05/02/23 20:18	1

Method: SW846 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	0.030	mg/Kg	✱	05/05/23 10:13	05/08/23 14:26	1
1,2-Dichlorobenzene	<0.21		0.21	0.017	mg/Kg	✱	05/05/23 10:13	05/08/23 14:26	1
1,3-Dichlorobenzene	<0.21		0.21	0.019	mg/Kg	✱	05/05/23 10:13	05/08/23 14:26	1
1,4-Dichlorobenzene	<0.21		0.21	0.020	mg/Kg	✱	05/05/23 10:13	05/08/23 14:26	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.030	mg/Kg	✱	05/05/23 10:13	05/08/23 14:26	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B186-2

Lab Sample ID: 500-233039-6

Date Collected: 04/27/23 13:00

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 75.7

Method: SW846 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	0.016	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
2,4,6-Trichlorophenol	<0.42		0.42	0.014	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
2,4-Dichlorophenol	<0.42		0.42	0.015	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
2,4-Dimethylphenol	<0.42		0.42	0.094	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
2,4-Dinitrophenol	<0.85		0.85	0.24	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
2,4-Dinitrotoluene	<0.21		0.21	0.024	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
2,6-Dinitrotoluene	<0.21		0.21	0.014	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
2-Chloronaphthalene	<0.21		0.21	0.016	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
2-Chlorophenol	<0.21		0.21	0.014	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
2-Methylnaphthalene	0.010	J	0.085	0.0085	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
2-Methylphenol	<0.21		0.21	0.022	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
2-Nitroaniline	<0.21		0.21	0.023	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
2-Nitrophenol	<0.42		0.42	0.029	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
3 & 4 Methylphenol	<0.21		0.21	0.031	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
3-Nitroaniline	<0.42		0.42	0.019	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.24	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.029	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
4-Chloro-3-methylphenol	<0.42		0.42	0.016	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
4-Chloroaniline	<0.85		0.85	0.44	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
4-Nitroaniline	<0.42		0.42	0.031	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
4-Nitrophenol	<0.85		0.85	0.16	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Acenaphthene	<0.042		0.042	0.0086	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Acenaphthylene	<0.042		0.042	0.0072	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Anthracene	<0.042		0.042	0.0086	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Benzo[a]anthracene	<0.042		0.042	0.0089	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Benzo[a]pyrene	<0.042		0.042	0.041	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Benzo[b]fluoranthene	<0.042		0.042	0.040	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Benzo[g,h,i]perylene	<0.042		0.042	0.0091	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Benzo[k]fluoranthene	<0.042		0.042	0.016	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.016	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.019	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.17	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Butyl benzyl phthalate	<0.21		0.21	0.021	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Carbazole	<0.21		0.21	0.017	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Dibenz(a,h)anthracene	<0.042		0.042	0.042	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Dibenzofuran	<0.21		0.21	0.015	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Diethyl phthalate	<0.21		0.21	0.019	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Dimethyl phthalate	<0.21		0.21	0.0092	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Di-n-butyl phthalate	<0.21		0.21	0.013	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Di-n-octyl phthalate	<0.42		0.42	0.29	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Fluoranthene	0.012	J	0.042	0.0098	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Fluorene	<0.042		0.042	0.012	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Hexachlorobenzene	<0.085		0.085	0.0081	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Hexachlorobutadiene	<0.21		0.21	0.024	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Hexachlorocyclopentadiene	<0.85		0.85	0.45	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1
Hexachloroethane	<0.21		0.21	0.021	mg/Kg	☼	05/05/23 10:13	05/08/23 14:26	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B186-2

Lab Sample ID: 500-233039-6

Date Collected: 04/27/23 13:00

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 75.7

Method: SW846 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	0.041	mg/Kg	☆	05/05/23 10:13	05/08/23 14:26	1
Isophorone	<0.21		0.21	0.022	mg/Kg	☆	05/05/23 10:13	05/08/23 14:26	1
Naphthalene	<0.042		0.042	0.0076	mg/Kg	☆	05/05/23 10:13	05/08/23 14:26	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☆	05/05/23 10:13	05/08/23 14:26	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.0083	mg/Kg	☆	05/05/23 10:13	05/08/23 14:26	1
N-Nitrosodiphenylamine	<0.21		0.21	0.025	mg/Kg	☆	05/05/23 10:13	05/08/23 14:26	1
Pentachlorophenol	<0.85		0.85	0.11	mg/Kg	☆	05/05/23 10:13	05/08/23 14:26	1
Phenanthrene	0.014	J	0.042	0.0092	mg/Kg	☆	05/05/23 10:13	05/08/23 14:26	1
Phenol	<0.21		0.21	0.018	mg/Kg	☆	05/05/23 10:13	05/08/23 14:26	1
Pyrene	<0.042		0.042	0.012	mg/Kg	☆	05/05/23 10:13	05/08/23 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		31 - 166				05/05/23 10:13	05/08/23 14:26	1
Phenol-d5	70		30 - 153				05/05/23 10:13	05/08/23 14:26	1
Nitrobenzene-d5 (Surr)	72		37 - 147				05/05/23 10:13	05/08/23 14:26	1
2-Fluorobiphenyl	92		43 - 145				05/05/23 10:13	05/08/23 14:26	1
2,4,6-Tribromophenol	86		31 - 143				05/05/23 10:13	05/08/23 14:26	1
Terphenyl-d14 (Surr)	100		42 - 157				05/05/23 10:13	05/08/23 14:26	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.3	0.25	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Arsenic	9.2		0.63	0.22	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Barium	92		0.63	0.072	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Beryllium	0.90		0.25	0.059	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Boron	7.0		3.2	0.29	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Cadmium	0.11	J	0.13	0.023	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Calcium	18000	B	13	2.1	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Chromium	16		0.63	0.31	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Cobalt	13		0.32	0.083	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Copper	25		0.63	0.18	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Iron	22000		13	6.6	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Lead	32		0.32	0.15	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Magnesium	12000		6.3	3.1	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Manganese	490		0.63	0.092	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Nickel	31		0.63	0.18	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Potassium	1400		32	11	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Selenium	0.55	J	0.63	0.37	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Silver	0.33		0.32	0.082	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Sodium	910		63	9.4	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Thallium	<0.63		0.63	0.32	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Vanadium	26		0.32	0.075	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1
Zinc	110		1.3	0.56	mg/Kg	☆	05/02/23 15:49	05/16/23 23:40	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:27	05/09/23 00:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:27	05/09/23 00:01	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:27	05/09/23 00:01	1
Iron	0.62	B	0.40	0.20	mg/L		05/04/23 17:27	05/09/23 00:01	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B186-2

Lab Sample ID: 500-233039-6

Date Collected: 04/27/23 13:00

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 75.7

Method: SW846 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		05/04/23 17:27	05/09/23 00:01	1
Manganese	10		0.025	0.010	mg/L		05/04/23 17:27	05/09/23 00:01	1
Nickel	0.035		0.025	0.010	mg/L		05/04/23 17:27	05/09/23 00:01	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.082		0.050	0.010	mg/L		05/03/23 17:48	05/12/23 03:16	1
Barium	0.90		0.50	0.050	mg/L		05/03/23 17:48	05/12/23 03:16	1
Beryllium	0.0061		0.0040	0.0040	mg/L		05/03/23 17:48	05/12/23 03:16	1
Boron	0.10		0.10	0.050	mg/L		05/03/23 17:48	05/12/23 17:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/12/23 03:16	1
Calcium	34	B	2.5	0.50	mg/L		05/03/23 17:48	05/12/23 03:16	1
Chromium	0.19		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:16	1
Cobalt	0.066		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:16	1
Iron	220		0.40	0.20	mg/L		05/03/23 17:48	05/12/23 17:41	1
Lead	0.14		0.0075	0.0075	mg/L		05/03/23 17:48	05/12/23 03:16	1
Manganese	2.3		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 17:41	1
Nickel	0.17		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:16	1
Potassium	14		2.5	0.50	mg/L		05/03/23 17:48	05/12/23 03:16	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/12/23 03:16	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:16	1
Zinc	0.61		0.50	0.020	mg/L		05/03/23 17:48	05/12/23 03:16	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:27	05/08/23 18:15	1

Method: SW846 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		05/03/23 17:48	05/04/23 23:12	1
Thallium	0.0032		0.0020	0.0020	mg/L		05/03/23 17:48	05/04/23 23:12	1

Method: SW846 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		05/09/23 12:35	05/10/23 11:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.020	0.010	mg/Kg	✱	05/10/23 16:35	05/11/23 08:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.32		0.32	0.16	mg/Kg	✱	05/03/23 08:19	05/03/23 11:17	1
pH (SW846 9045D)	8.4		0.2	0.2	SU			05/03/23 12:56	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B186-3

Lab Sample ID: 500-233039-7

Date Collected: 04/27/23 13:10

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 84.8

Method: SW846 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	✱	04/29/23 06:20	05/03/23 01:45	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
2-Butanone (MEK)	<0.0046	*1	0.0046	0.0020	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
2-Hexanone	<0.0046	*1	0.0046	0.0014	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
4-Methyl-2-pentanone (MIBK)	<0.0046	*1	0.0046	0.0014	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Acetone	<0.018		0.018	0.0080	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Chloromethane	<0.0046	*+	0.0046	0.0019	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Toluene	0.00088	J	0.0018	0.00047	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	✱	04/29/23 06:20	05/03/23 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	04/29/23 06:20	05/03/23 01:45	1
4-Bromofluorobenzene (Surr)	94		75 - 131	04/29/23 06:20	05/03/23 01:45	1
Dibromofluoromethane	102		75 - 126	04/29/23 06:20	05/03/23 01:45	1
Toluene-d8 (Surr)	92		75 - 124	04/29/23 06:20	05/03/23 01:45	1

Method: SW846 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	0.027	mg/Kg	✱	05/05/23 10:13	05/08/23 14:50	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	✱	05/05/23 10:13	05/08/23 14:50	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	✱	05/05/23 10:13	05/08/23 14:50	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	✱	05/05/23 10:13	05/08/23 14:50	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	✱	05/05/23 10:13	05/08/23 14:50	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B186-3

Lab Sample ID: 500-233039-7

Date Collected: 04/27/23 13:10

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 84.8

Method: SW846 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	0.014	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
2,4-Dinitrophenol	<0.77		0.77	0.22	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
2-Methylnaphthalene	<0.077		0.077	0.0076	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.21	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
4-Chloroaniline	<0.77		0.77	0.40	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
4-Nitrophenol	<0.77		0.77	0.14	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Acenaphthene	<0.038		0.038	0.0077	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Acenaphthylene	<0.038		0.038	0.0065	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Anthracene	<0.038		0.038	0.0078	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Benzo[a]pyrene	<0.038		0.038	0.037	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Benzo[g,h,i]perylene	<0.038		0.038	0.0083	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Benzo[k]fluoranthene	<0.038		0.038	0.014	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Dibenzofuran	<0.19		0.19	0.014	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Dimethyl phthalate	<0.19		0.19	0.0083	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Fluoranthene	<0.038		0.038	0.0088	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Hexachlorobenzene	<0.077		0.077	0.0073	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Hexachlorocyclopentadiene	<0.77		0.77	0.40	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B186-3

Lab Sample ID: 500-233039-7

Date Collected: 04/27/23 13:10

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 84.8

Method: SW846 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	0.037	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Isophorone	<0.19		0.19	0.020	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Naphthalene	<0.038		0.038	0.0069	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.0075	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Pentachlorophenol	<0.77		0.77	0.095	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Phenanthrene	<0.038		0.038	0.0083	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Phenol	<0.19		0.19	0.017	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1
Pyrene	<0.038		0.038	0.010	mg/Kg	☆	05/05/23 10:13	05/08/23 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		31 - 166	05/05/23 10:13	05/08/23 14:50	1
Phenol-d5	61		30 - 153	05/05/23 10:13	05/08/23 14:50	1
Nitrobenzene-d5 (Surr)	65		37 - 147	05/05/23 10:13	05/08/23 14:50	1
2-Fluorobiphenyl	75		43 - 145	05/05/23 10:13	05/08/23 14:50	1
2,4,6-Tribromophenol	64		31 - 143	05/05/23 10:13	05/08/23 14:50	1
Terphenyl-d14 (Surr)	88		42 - 157	05/05/23 10:13	05/08/23 14:50	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.1	0.22	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Arsenic	9.9		0.57	0.20	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Barium	46		0.57	0.065	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Beryllium	0.75		0.23	0.053	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Boron	9.9		2.9	0.27	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Cadmium	0.045	J	0.11	0.021	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Calcium	61000	B	57	9.7	mg/Kg	☆	05/02/23 15:49	05/17/23 13:17	5
Chromium	14		0.57	0.28	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Cobalt	12		0.29	0.075	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Copper	24		0.57	0.16	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Iron	20000		11	5.9	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Lead	15		0.29	0.13	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Magnesium	27000		5.7	2.8	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Manganese	400		0.57	0.083	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Nickel	31		0.57	0.17	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Potassium	1900		29	10	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Selenium	<0.57		0.57	0.34	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Silver	0.26	J	0.29	0.074	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Sodium	420		57	8.5	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Thallium	<0.57		0.57	0.28	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Vanadium	19		0.29	0.067	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1
Zinc	73		1.1	0.50	mg/Kg	☆	05/02/23 15:49	05/16/23 23:43	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:27	05/09/23 00:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:27	05/09/23 00:04	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:27	05/09/23 00:04	1
Iron	<0.40		0.40	0.20	mg/L		05/04/23 17:27	05/09/23 00:04	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B186-3

Lab Sample ID: 500-233039-7

Date Collected: 04/27/23 13:10

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 84.8

Method: SW846 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		05/04/23 17:27	05/09/23 00:04	1
Manganese	0.81		0.025	0.010	mg/L		05/04/23 17:27	05/09/23 00:04	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/23 17:27	05/09/23 00:04	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.098		0.050	0.010	mg/L		05/03/23 17:48	05/12/23 03:19	1
Barium	0.56		0.50	0.050	mg/L		05/03/23 17:48	05/12/23 03:19	1
Beryllium	0.0063		0.0040	0.0040	mg/L		05/03/23 17:48	05/12/23 03:19	1
Boron	0.16		0.10	0.050	mg/L		05/03/23 17:48	05/12/23 17:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/12/23 03:19	1
Calcium	34	B	2.5	0.50	mg/L		05/03/23 17:48	05/12/23 03:19	1
Chromium	0.15		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:19	1
Cobalt	0.063		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:19	1
Iron	190		0.40	0.20	mg/L		05/03/23 17:48	05/12/23 17:44	1
Lead	0.099		0.0075	0.0075	mg/L		05/03/23 17:48	05/12/23 03:19	1
Manganese	0.98		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 17:44	1
Nickel	0.22		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:19	1
Potassium	26		2.5	0.50	mg/L		05/03/23 17:48	05/12/23 03:19	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/12/23 03:19	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:19	1
Zinc	0.64		0.50	0.020	mg/L		05/03/23 17:48	05/12/23 03:19	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:27	05/08/23 18:17	1

Method: SW846 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		05/03/23 17:48	05/04/23 23:14	1
Thallium	0.0050		0.0020	0.0020	mg/L		05/03/23 17:48	05/04/23 23:14	1

Method: SW846 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		05/09/23 12:35	05/10/23 11:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0097	mg/Kg	✱	05/10/23 16:35	05/11/23 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.16	J	0.27	0.14	mg/Kg	✱	05/03/23 08:20	05/03/23 11:19	1
pH (SW846 9045D)	7.9		0.2	0.2	SU			05/04/23 16:28	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B184

Lab Sample ID: 500-233039-11

Date Collected: 04/27/23 13:50

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 85.8

Method: SW846 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	✳	04/29/23 06:20	05/03/23 03:27	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
2-Butanone (MEK)	<0.0046	*1	0.0046	0.0020	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
2-Hexanone	<0.0046	*1	0.0046	0.0014	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
4-Methyl-2-pentanone (MIBK)	<0.0046	*1	0.0046	0.0014	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Acetone	0.014	J	0.018	0.0080	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Chloromethane	<0.0046	*+	0.0046	0.0018	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Toluene	0.00082	J	0.0018	0.00046	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	✳	04/29/23 06:20	05/03/23 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	04/29/23 06:20	05/03/23 03:27	1
4-Bromofluorobenzene (Surr)	92		75 - 131	04/29/23 06:20	05/03/23 03:27	1
Dibromofluoromethane	100		75 - 126	04/29/23 06:20	05/03/23 03:27	1
Toluene-d8 (Surr)	89		75 - 124	04/29/23 06:20	05/03/23 03:27	1

Method: SW846 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	0.027	mg/Kg	✳	05/05/23 10:13	05/08/23 16:29	1
1,2-Dichlorobenzene	<0.19		0.19	0.016	mg/Kg	✳	05/05/23 10:13	05/08/23 16:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	✳	05/05/23 10:13	05/08/23 16:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	✳	05/05/23 10:13	05/08/23 16:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	✳	05/05/23 10:13	05/08/23 16:29	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B184

Lab Sample ID: 500-233039-11

Date Collected: 04/27/23 13:50

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 85.8

Method: SW846 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	0.014	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
2,4-Dinitrophenol	<0.77		0.77	0.22	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
2-Methylnaphthalene	<0.077		0.077	0.0077	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.22	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
4-Chloroaniline	<0.77		0.77	0.40	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
4-Nitrophenol	<0.77		0.77	0.14	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Acenaphthene	<0.038		0.038	0.0078	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Acenaphthylene	<0.038		0.038	0.0065	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Anthracene	<0.038		0.038	0.0078	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Benzo[a]pyrene	<0.038		0.038	0.037	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Benzo[g,h,i]perylene	<0.038		0.038	0.0083	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Benzo[k]fluoranthene	<0.038		0.038	0.014	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Dibenzofuran	<0.19		0.19	0.014	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Dimethyl phthalate	<0.19		0.19	0.0083	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Fluoranthene	<0.038		0.038	0.0089	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Hexachlorobenzene	<0.077		0.077	0.0073	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Hexachlorobutadiene	<0.19		0.19	0.022	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Hexachlorocyclopentadiene	<0.77		0.77	0.40	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	05/05/23 10:13	05/08/23 16:29	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B184

Lab Sample ID: 500-233039-11

Date Collected: 04/27/23 13:50

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 85.8

Method: SW846 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	0.037	mg/Kg	✳	05/05/23 10:13	05/08/23 16:29	1
Isophorone	<0.19		0.19	0.020	mg/Kg	✳	05/05/23 10:13	05/08/23 16:29	1
Naphthalene	<0.038		0.038	0.0069	mg/Kg	✳	05/05/23 10:13	05/08/23 16:29	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	✳	05/05/23 10:13	05/08/23 16:29	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.0075	mg/Kg	✳	05/05/23 10:13	05/08/23 16:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	✳	05/05/23 10:13	05/08/23 16:29	1
Pentachlorophenol	<0.77		0.77	0.095	mg/Kg	✳	05/05/23 10:13	05/08/23 16:29	1
Phenanthrene	<0.038		0.038	0.0083	mg/Kg	✳	05/05/23 10:13	05/08/23 16:29	1
Phenol	<0.19		0.19	0.017	mg/Kg	✳	05/05/23 10:13	05/08/23 16:29	1
Pyrene	<0.038		0.038	0.010	mg/Kg	✳	05/05/23 10:13	05/08/23 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		31 - 166				05/05/23 10:13	05/08/23 16:29	1
Phenol-d5	64		30 - 153				05/05/23 10:13	05/08/23 16:29	1
Nitrobenzene-d5 (Surr)	65		37 - 147				05/05/23 10:13	05/08/23 16:29	1
2-Fluorobiphenyl	86		43 - 145				05/05/23 10:13	05/08/23 16:29	1
2,4,6-Tribromophenol	77		31 - 143				05/05/23 10:13	05/08/23 16:29	1
Terphenyl-d14 (Surr)	91		42 - 157				05/05/23 10:13	05/08/23 16:29	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.2	0.23	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Arsenic	8.1		0.58	0.20	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Barium	76		0.58	0.066	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Beryllium	0.79		0.23	0.054	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Boron	7.9		2.9	0.27	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Cadmium	<0.12		0.12	0.021	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Calcium	32000	B	12	2.0	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Chromium	15		0.58	0.29	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Cobalt	13		0.29	0.076	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Copper	22		0.58	0.16	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Iron	19000		12	6.0	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Lead	15		0.29	0.13	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Magnesium	18000		5.8	2.9	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Manganese	540		0.58	0.084	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Nickel	31		0.58	0.17	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Potassium	1600		29	10	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Selenium	<0.58		0.58	0.34	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Silver	0.31		0.29	0.075	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Sodium	710		58	8.6	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Thallium	<0.58		0.58	0.29	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Vanadium	21		0.29	0.068	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1
Zinc	73		1.2	0.51	mg/Kg	✳	05/02/23 15:49	05/16/23 23:57	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:27	05/09/23 00:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:27	05/09/23 00:14	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:27	05/09/23 00:14	1
Iron	0.25	J B	0.40	0.20	mg/L		05/04/23 17:27	05/09/23 00:14	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B184

Lab Sample ID: 500-233039-11

Date Collected: 04/27/23 13:50

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 85.8

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.010		0.0075	0.0075	mg/L		05/04/23 17:27	05/09/23 00:14	1
Manganese	7.5		0.025	0.010	mg/L		05/04/23 17:27	05/09/23 00:14	1
Nickel	0.027		0.025	0.010	mg/L		05/04/23 17:27	05/09/23 00:14	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.078		0.050	0.010	mg/L		05/03/23 17:48	05/12/23 03:32	1
Barium	0.54		0.50	0.050	mg/L		05/03/23 17:48	05/12/23 03:32	1
Beryllium	0.0054		0.0040	0.0040	mg/L		05/03/23 17:48	05/12/23 03:32	1
Boron	0.17		0.10	0.050	mg/L		05/03/23 17:48	05/12/23 17:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/12/23 03:32	1
Calcium	37	B	2.5	0.50	mg/L		05/03/23 17:48	05/12/23 03:32	1
Chromium	0.13		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:32	1
Cobalt	0.062		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:32	1
Iron	160		0.40	0.20	mg/L		05/03/23 17:48	05/12/23 17:57	1
Lead	0.064		0.0075	0.0075	mg/L		05/03/23 17:48	05/12/23 03:32	1
Manganese	1.1		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 17:57	1
Nickel	0.19		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:32	1
Potassium	24		2.5	0.50	mg/L		05/03/23 17:48	05/12/23 03:32	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/12/23 03:32	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:32	1
Zinc	0.52		0.50	0.020	mg/L		05/03/23 17:48	05/12/23 03:32	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:27	05/08/23 18:23	1

Method: SW846 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		05/03/23 17:48	05/04/23 23:26	1
Thallium	0.0049		0.0020	0.0020	mg/L		05/03/23 17:48	05/04/23 23:26	1

Method: SW846 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		05/09/23 12:35	05/10/23 11:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0099	mg/Kg	✱	05/10/23 16:35	05/11/23 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.13	mg/Kg	✱	05/03/23 08:24	05/03/23 11:26	1
pH (SW846 9045D)	7.3		0.2	0.2	SU			05/04/23 16:41	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B184 Dup

Lab Sample ID: 500-233039-12

Date Collected: 04/27/23 14:00

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 81.2

Method: SW846 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	✱	04/29/23 06:20	05/03/23 03:53	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
1,1-Dichloroethene	<0.0020		0.0020	0.00067	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
2-Butanone (MEK)	<0.0049	*1	0.0049	0.0022	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
2-Hexanone	<0.0049	*1	0.0049	0.0015	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
4-Methyl-2-pentanone (MIBK)	<0.0049	*1	0.0049	0.0015	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Acetone	0.011	J	0.020	0.0085	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Chlorobenzene	<0.0020		0.0020	0.00072	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Chloroethane	<0.0049		0.0049	0.0015	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Chloromethane	<0.0049	*+	0.0049	0.0020	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Toluene	0.0013	J	0.0020	0.00050	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	✱	04/29/23 06:20	05/03/23 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	04/29/23 06:20	05/03/23 03:53	1
4-Bromofluorobenzene (Surr)	92		75 - 131	04/29/23 06:20	05/03/23 03:53	1
Dibromofluoromethane	97		75 - 126	04/29/23 06:20	05/03/23 03:53	1
Toluene-d8 (Surr)	90		75 - 124	04/29/23 06:20	05/03/23 03:53	1

Method: SW846 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	0.028	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B184 Dup

Lab Sample ID: 500-233039-12

Date Collected: 04/27/23 14:00

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 81.2

Method: SW846 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	0.015	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
2,4,6-Trichlorophenol	<0.39		0.39	0.013	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
2,4-Dimethylphenol	<0.39		0.39	0.089	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
2,4-Dinitrophenol	<0.80		0.80	0.23	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.023	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
2-Methylnaphthalene	<0.080		0.080	0.0079	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
2-Nitrophenol	<0.39		0.39	0.027	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.22	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
4-Chloroaniline	<0.80		0.80	0.41	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
4-Nitrophenol	<0.80		0.80	0.15	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Acenaphthene	<0.039		0.039	0.0080	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Acenaphthylene	<0.039		0.039	0.0067	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Anthracene	<0.039		0.039	0.0081	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Benzo[a]anthracene	0.013	J	0.039	0.0084	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Benzo[a]pyrene	<0.039		0.039	0.038	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Benzo[b]fluoranthene	<0.039		0.039	0.038	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Benzo[g,h,i]perylene	0.015	J	0.039	0.0086	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Benzo[k]fluoranthene	<0.039		0.039	0.015	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.15	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Carbazole	<0.20		0.20	0.016	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Chrysene	<0.039		0.039	0.010	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Dimethyl phthalate	<0.20		0.20	0.0086	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Di-n-butyl phthalate	<0.20		0.20	0.013	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Di-n-octyl phthalate	<0.39		0.39	0.28	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Fluoranthene	<0.039		0.039	0.0092	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Fluorene	<0.039		0.039	0.012	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Hexachlorobenzene	<0.080		0.080	0.0076	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Hexachlorocyclopentadiene	<0.80		0.80	0.42	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	✱	05/05/23 10:13	05/08/23 16:54	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B184 Dup

Lab Sample ID: 500-233039-12

Date Collected: 04/27/23 14:00

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 81.2

Method: SW846 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	0.039	mg/Kg	☼	05/05/23 10:13	05/08/23 16:54	1
Isophorone	<0.20		0.20	0.020	mg/Kg	☼	05/05/23 10:13	05/08/23 16:54	1
Naphthalene	<0.039		0.039	0.0072	mg/Kg	☼	05/05/23 10:13	05/08/23 16:54	1
Nitrobenzene	<0.039		0.039	0.013	mg/Kg	☼	05/05/23 10:13	05/08/23 16:54	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.0078	mg/Kg	☼	05/05/23 10:13	05/08/23 16:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.023	mg/Kg	☼	05/05/23 10:13	05/08/23 16:54	1
Pentachlorophenol	<0.80		0.80	0.099	mg/Kg	☼	05/05/23 10:13	05/08/23 16:54	1
Phenanthrene	<0.039		0.039	0.0086	mg/Kg	☼	05/05/23 10:13	05/08/23 16:54	1
Phenol	<0.20		0.20	0.017	mg/Kg	☼	05/05/23 10:13	05/08/23 16:54	1
Pyrene	<0.039		0.039	0.011	mg/Kg	☼	05/05/23 10:13	05/08/23 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		31 - 166	05/05/23 10:13	05/08/23 16:54	1
Phenol-d5	59		30 - 153	05/05/23 10:13	05/08/23 16:54	1
Nitrobenzene-d5 (Surr)	62		37 - 147	05/05/23 10:13	05/08/23 16:54	1
2-Fluorobiphenyl	76		43 - 145	05/05/23 10:13	05/08/23 16:54	1
2,4,6-Tribromophenol	78		31 - 143	05/05/23 10:13	05/08/23 16:54	1
Terphenyl-d14 (Surr)	94		42 - 157	05/05/23 10:13	05/08/23 16:54	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.2	0.24	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Arsenic	11		0.60	0.21	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Barium	81		0.60	0.069	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Beryllium	0.85		0.24	0.056	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Boron	8.2		3.0	0.28	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Calcium	33000	B	12	2.1	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Chromium	16		0.60	0.30	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Cobalt	13		0.30	0.079	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Copper	24		0.60	0.17	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Iron	23000		12	6.3	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Lead	17		0.30	0.14	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Magnesium	21000		6.0	3.0	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Manganese	440		0.60	0.088	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Nickel	32		0.60	0.18	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Potassium	1600		30	11	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Selenium	0.44	J	0.60	0.36	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Silver	0.27	J	0.30	0.078	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Sodium	800		60	8.9	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Vanadium	24		0.30	0.071	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1
Zinc	77		1.2	0.53	mg/Kg	☼	05/02/23 15:49	05/17/23 00:01	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:27	05/09/23 00:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:27	05/09/23 00:18	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:27	05/09/23 00:18	1
Iron	0.58	B	0.40	0.20	mg/L		05/04/23 17:27	05/09/23 00:18	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B184 Dup

Lab Sample ID: 500-233039-12

Date Collected: 04/27/23 14:00

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 81.2

Method: SW846 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		05/04/23 17:27	05/09/23 00:18	1
Manganese	10		0.025	0.010	mg/L		05/04/23 17:27	05/09/23 00:18	1
Nickel	0.018	J	0.025	0.010	mg/L		05/04/23 17:27	05/09/23 00:18	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.060		0.050	0.010	mg/L		05/03/23 17:48	05/12/23 03:35	1
Barium	0.58		0.50	0.050	mg/L		05/03/23 17:48	05/12/23 03:35	1
Beryllium	0.0047		0.0040	0.0040	mg/L		05/03/23 17:48	05/12/23 03:35	1
Boron	0.15		0.10	0.050	mg/L		05/03/23 17:48	05/12/23 18:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/12/23 03:35	1
Calcium	32	B	2.5	0.50	mg/L		05/03/23 17:48	05/12/23 03:35	1
Chromium	0.12		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:35	1
Cobalt	0.062		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:35	1
Iron	140		0.40	0.20	mg/L		05/03/23 17:48	05/12/23 18:00	1
Lead	0.055		0.0075	0.0075	mg/L		05/03/23 17:48	05/12/23 03:35	1
Manganese	1.2		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 18:00	1
Nickel	0.17		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:35	1
Potassium	20		2.5	0.50	mg/L		05/03/23 17:48	05/12/23 03:35	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/12/23 03:35	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:35	1
Zinc	0.45	J	0.50	0.020	mg/L		05/03/23 17:48	05/12/23 03:35	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:27	05/08/23 18:29	1

Method: SW846 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		05/03/23 17:48	05/04/23 23:28	1
Thallium	0.0040		0.0020	0.0020	mg/L		05/03/23 17:48	05/04/23 23:28	1

Method: SW846 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		05/09/23 12:35	05/10/23 11:39	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.020	0.011	mg/Kg	✱	05/10/23 16:35	05/11/23 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.14	J	0.26	0.13	mg/Kg	✱	05/03/23 08:25	05/03/23 11:28	1
pH (SW846 9045D)	7.5		0.2	0.2	SU			05/04/23 16:43	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B183

Lab Sample ID: 500-233039-13

Date Collected: 04/27/23 14:10

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 79.0

Method: SW846 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	✳	04/29/23 06:20	05/03/23 04:18	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00090	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
1,1-Dichloroethane	<0.0021		0.0021	0.00072	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00074	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
2-Butanone (MEK)	<0.0052	*1	0.0052	0.0023	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
2-Hexanone	<0.0052	*1	0.0052	0.0016	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
4-Methyl-2-pentanone (MIBK)	<0.0052	*1	0.0052	0.0016	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Acetone	<0.021		0.021	0.0091	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Carbon tetrachloride	<0.0021		0.0021	0.00061	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Chlorobenzene	<0.0021		0.0021	0.00077	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Chloroethane	<0.0052		0.0052	0.0016	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Chloroform	<0.0021		0.0021	0.00073	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Chloromethane	<0.0052	*+	0.0052	0.0021	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Methylene Chloride	<0.0052		0.0052	0.0021	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Toluene	0.00098	J	0.0021	0.00053	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00093	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Trichloroethene	<0.0021		0.0021	0.00071	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Vinyl chloride	<0.0021		0.0021	0.00093	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	✳	04/29/23 06:20	05/03/23 04:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	04/29/23 06:20	05/03/23 04:18	1
4-Bromofluorobenzene (Surr)	92		75 - 131	04/29/23 06:20	05/03/23 04:18	1
Dibromofluoromethane	101		75 - 126	04/29/23 06:20	05/03/23 04:18	1
Toluene-d8 (Surr)	89		75 - 124	04/29/23 06:20	05/03/23 04:18	1

Method: SW846 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	0.029	mg/Kg	✳	05/05/23 10:13	05/08/23 19:22	1
1,2-Dichlorobenzene	<0.21		0.21	0.017	mg/Kg	✳	05/05/23 10:13	05/08/23 19:22	1
1,3-Dichlorobenzene	<0.21		0.21	0.019	mg/Kg	✳	05/05/23 10:13	05/08/23 19:22	1
1,4-Dichlorobenzene	<0.21		0.21	0.019	mg/Kg	✳	05/05/23 10:13	05/08/23 19:22	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.029	mg/Kg	✳	05/05/23 10:13	05/08/23 19:22	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B183

Lab Sample ID: 500-233039-13

Date Collected: 04/27/23 14:10

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 79.0

Method: SW846 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	0.015	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
2,4,6-Trichlorophenol	<0.41		0.41	0.014	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
2,4-Dichlorophenol	<0.41		0.41	0.014	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
2,4-Dimethylphenol	<0.41		0.41	0.092	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
2,4-Dinitrophenol	<0.83		0.83	0.24	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
2,4-Dinitrotoluene	<0.21		0.21	0.023	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
2,6-Dinitrotoluene	<0.21		0.21	0.014	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
2-Chloronaphthalene	<0.21		0.21	0.015	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
2-Chlorophenol	<0.21		0.21	0.013	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
2-Methylnaphthalene	0.032	J	0.083	0.0082	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
2-Methylphenol	<0.21		0.21	0.022	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
2-Nitroaniline	<0.21		0.21	0.022	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
2-Nitrophenol	<0.41		0.41	0.028	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
3 & 4 Methylphenol	<0.21		0.21	0.030	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
3-Nitroaniline	<0.41		0.41	0.019	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.23	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.028	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
4-Chloro-3-methylphenol	<0.41		0.41	0.016	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
4-Chloroaniline	<0.83		0.83	0.43	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
4-Nitroaniline	<0.41		0.41	0.030	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
4-Nitrophenol	<0.83		0.83	0.15	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Acenaphthene	<0.041		0.041	0.0084	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Acenaphthylene	<0.041		0.041	0.0070	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Anthracene	0.014	J	0.041	0.0084	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Benzo[a]anthracene	0.069		0.041	0.0087	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Benzo[a]pyrene	0.079		0.041	0.040	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Benzo[b]fluoranthene	0.098		0.041	0.039	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Benzo[g,h,i]perylene	0.13		0.041	0.0089	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Benzo[k]fluoranthene	0.029	J	0.041	0.016	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.015	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.019	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.16	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Butyl benzyl phthalate	<0.21		0.21	0.020	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Carbazole	<0.21		0.21	0.016	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Chrysene	0.086		0.041	0.011	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Dibenz(a,h)anthracene	<0.041		0.041	0.041	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Dibenzofuran	<0.21		0.21	0.015	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Diethyl phthalate	<0.21		0.21	0.019	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Dimethyl phthalate	<0.21		0.21	0.0089	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Di-n-butyl phthalate	<0.21		0.21	0.013	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Di-n-octyl phthalate	<0.41		0.41	0.29	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Fluoranthene	0.11		0.041	0.0095	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Fluorene	<0.041		0.041	0.012	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Hexachlorobenzene	<0.083		0.083	0.0079	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Hexachlorobutadiene	<0.21		0.21	0.023	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Hexachlorocyclopentadiene	<0.83		0.83	0.44	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1
Hexachloroethane	<0.21		0.21	0.021	mg/Kg	✱	05/05/23 10:13	05/08/23 19:22	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B183

Lab Sample ID: 500-233039-13

Date Collected: 04/27/23 14:10

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 79.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.074		0.041	0.040	mg/Kg	✳	05/05/23 10:13	05/08/23 19:22	1
Isophorone	<0.21		0.21	0.021	mg/Kg	✳	05/05/23 10:13	05/08/23 19:22	1
Naphthalene	0.020	J	0.041	0.0074	mg/Kg	✳	05/05/23 10:13	05/08/23 19:22	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	✳	05/05/23 10:13	05/08/23 19:22	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.0081	mg/Kg	✳	05/05/23 10:13	05/08/23 19:22	1
N-Nitrosodiphenylamine	<0.21		0.21	0.024	mg/Kg	✳	05/05/23 10:13	05/08/23 19:22	1
Pentachlorophenol	<0.83		0.83	0.10	mg/Kg	✳	05/05/23 10:13	05/08/23 19:22	1
Phenanthrene	0.078		0.041	0.0089	mg/Kg	✳	05/05/23 10:13	05/08/23 19:22	1
Phenol	<0.21		0.21	0.018	mg/Kg	✳	05/05/23 10:13	05/08/23 19:22	1
Pyrene	0.088		0.041	0.011	mg/Kg	✳	05/05/23 10:13	05/08/23 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		31 - 166				05/05/23 10:13	05/08/23 19:22	1
Phenol-d5	65		30 - 153				05/05/23 10:13	05/08/23 19:22	1
Nitrobenzene-d5 (Surr)	75		37 - 147				05/05/23 10:13	05/08/23 19:22	1
2-Fluorobiphenyl	94		43 - 145				05/05/23 10:13	05/08/23 19:22	1
2,4,6-Tribromophenol	81		31 - 143				05/05/23 10:13	05/08/23 19:22	1
Terphenyl-d14 (Surr)	93		42 - 157				05/05/23 10:13	05/08/23 19:22	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.2	0.24	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Arsenic	5.5		0.62	0.21	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Barium	130		0.62	0.070	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Beryllium	0.96		0.25	0.058	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Boron	13		3.1	0.29	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Cadmium	0.45		0.12	0.022	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Calcium	36000	B	12	2.1	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Chromium	12		0.62	0.31	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Cobalt	6.6		0.31	0.081	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Copper	23		0.62	0.17	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Iron	15000		12	6.4	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Lead	61		0.31	0.14	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Magnesium	22000		6.2	3.1	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Manganese	250		0.62	0.089	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Nickel	19		0.62	0.18	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Potassium	1200		31	11	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Selenium	<0.62		0.62	0.36	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Silver	0.26	J	0.31	0.080	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Sodium	1600		62	9.1	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Thallium	<0.62		0.62	0.31	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Vanadium	20		0.31	0.073	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1
Zinc	100		1.2	0.54	mg/Kg	✳	05/02/23 15:49	05/17/23 00:04	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:27	05/09/23 00:21	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:27	05/09/23 00:21	1
Iron	0.20	J B	0.40	0.20	mg/L		05/04/23 17:27	05/09/23 00:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/23 17:27	05/09/23 00:21	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Client Sample ID: 2233V3-1-B183

Lab Sample ID: 500-233039-13

Date Collected: 04/27/23 14:10

Matrix: Solid

Date Received: 04/28/23 12:10

Percent Solids: 79.0

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.30		0.025	0.010	mg/L		05/04/23 17:27	05/09/23 00:21	1
Nickel	0.045		0.025	0.010	mg/L		05/04/23 17:27	05/09/23 00:21	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.045	J	0.050	0.010	mg/L		05/03/23 17:48	05/12/23 03:44	1
Barium	0.91		0.50	0.050	mg/L		05/03/23 17:48	05/12/23 03:44	1
Beryllium	0.0073		0.0040	0.0040	mg/L		05/03/23 17:48	05/12/23 03:44	1
Boron	0.12		0.10	0.050	mg/L		05/03/23 17:48	05/12/23 18:03	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		05/03/23 17:48	05/12/23 03:44	1
Calcium	32	B	2.5	0.50	mg/L		05/03/23 17:48	05/12/23 03:44	1
Chromium	0.18		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:44	1
Cobalt	0.040		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:44	1
Iron	170		0.40	0.20	mg/L		05/03/23 17:48	05/12/23 18:03	1
Lead	0.24		0.0075	0.0075	mg/L		05/03/23 17:48	05/12/23 03:44	1
Manganese	0.70		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 18:03	1
Nickel	0.14		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:44	1
Potassium	19		2.5	0.50	mg/L		05/03/23 17:48	05/12/23 03:44	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/12/23 03:44	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:44	1
Zinc	1.0		0.50	0.020	mg/L		05/03/23 17:48	05/12/23 03:44	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:27	05/08/23 18:31	1

Method: SW846 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		05/03/23 17:48	05/04/23 23:30	1
Thallium	0.0029		0.0020	0.0020	mg/L		05/03/23 17:48	05/04/23 23:30	1

Method: SW846 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		05/09/23 12:35	05/10/23 11:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070		0.019	0.0098	mg/Kg	☆	05/10/23 16:35	05/11/23 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.16	J	0.27	0.14	mg/Kg	☆	05/04/23 08:09	05/04/23 09:50	1
pH (SW846 9045D)	7.9		0.2	0.2	SU			05/04/23 16:45	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD 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.

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
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.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
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
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.

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

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Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

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Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233039-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-23 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name <u>AE8-010A</u>	COC No <u>3</u> of <u>3</u>
Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email <u>Jodie.Bracken@ET EurofinsUS.com</u>	Project No <u>PTB/WO: 195-002/010A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>J. Weisbratt</u>	Lab Job No.: <u>500-233039</u> Sample Temp:

Special Instructions:
See Table 2 for complete parameter lists and minimum reporting limits
* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3) run TCLP for that specific RCRA metal
** If SPLP result exceeds Class I Standard run TCLP for that specific parameter
*** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide

ANALYSES														
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization			
X	X					X	X	X	X	X				

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
4	2233V3-1-B187-3	4/27/23	1240	S	X	X					X	X	X	X	X					4 & 4-DUP Not sampled
5	2233V3-1-B186-1		1250																	
6	2233V3-1-B186-2		1300																	
7	2233V3-1-B186-3		1310																	
8	2233V3-1-B185-1		1320																	
9	2233V3-1-B185-2		1330																	
10	2233V3-1-B185-3		1340																	
11	2233V3-1-B184		1350																	
12	2233V3-1-B184 DVP		1400																	
13	2233V3-1-B183		1410																	
14	Trip Blank # 4																			

Relinquished by <u>Jodie Weisbratt</u>	Date/Time <u>04/28/23</u>	Received by <u>Jodie Weisbratt</u>	Date/Time <u>04/28/23 1125</u>
Relinquished by <u>Colleen Grey</u>	Date/Time <u>4/28/23 1200</u>	Received by <u>Jodie Weisbratt</u>	Date/Time <u>4/28/23 1210</u>
Relinquished by	Date/Time	Received by	Date/Time

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Ms. Colleen Grey
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Generated 5/26/2023 4:03:35 PM Revision 1

JOB DESCRIPTION

IDOT - AE8-010

JOB NUMBER

500-233041-1

Eurofins Chicago

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Revision 1

Authorized for release by
Jodie Bracken, Project Management Assistant II
Jodie.Bracken@et.eurofinsus.com
(708)534-5200

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B178

Lab Sample ID: 500-233041-3

Date Collected: 04/28/23 09:20

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 82.8

Method: SW846 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	✳	04/29/23 13:30	05/03/23 07:16	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
2-Butanone (MEK)	<0.0046	*1	0.0046	0.0020	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
2-Hexanone	<0.0046	*1	0.0046	0.0014	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
4-Methyl-2-pentanone (MIBK)	<0.0046	*1	0.0046	0.0014	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Acetone	<0.018		0.018	0.0080	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Chloromethane	<0.0046	*+	0.0046	0.0018	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	✳	04/29/23 13:30	05/03/23 07:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	04/29/23 13:30	05/03/23 07:16	1
4-Bromofluorobenzene (Surr)	99		75 - 131	04/29/23 13:30	05/03/23 07:16	1
Dibromofluoromethane	98		75 - 126	04/29/23 13:30	05/03/23 07:16	1
Toluene-d8 (Surr)	92		75 - 124	04/29/23 13:30	05/03/23 07:16	1

Method: SW846 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	0.028	mg/Kg	✳	05/10/23 07:54	05/11/23 12:51	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	✳	05/10/23 07:54	05/11/23 12:51	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	✳	05/10/23 07:54	05/11/23 12:51	1
1,4-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	✳	05/10/23 07:54	05/11/23 12:51	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	✳	05/10/23 07:54	05/11/23 12:51	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B178

Lab Sample ID: 500-233041-3

Date Collected: 04/28/23 09:20

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 82.8

Method: SW846 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	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
2,4,6-Trichlorophenol	<0.39		0.39	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
2,4-Dimethylphenol	<0.39		0.39	0.088	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
2,4-Dinitrophenol	<0.79		0.79	0.23	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
2,4-Dinitrotoluene	<0.20		0.20	0.022	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
2-Methylnaphthalene	<0.079		0.079	0.0078	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
2-Nitrophenol	<0.39		0.39	0.026	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.22	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
4-Chloroaniline	<0.79		0.79	0.41	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
4-Nitrophenol	<0.79		0.79	0.14	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Acenaphthene	<0.039		0.039	0.0079	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Acenaphthylene	<0.039		0.039	0.0066	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Anthracene	<0.039		0.039	0.0080	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Benzo[a]anthracene	0.022	J	0.039	0.0083	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Benzo[a]pyrene	<0.039		0.039	0.038	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Benzo[b]fluoranthene	<0.039		0.039	0.037	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Benzo[g,h,i]perylene	0.016	J	0.039	0.0085	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Benzo[k]fluoranthene	<0.039		0.039	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.15	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Butyl benzyl phthalate	<0.20		0.20	0.019	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Carbazole	<0.20		0.20	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Chrysene	0.015	J	0.039	0.010	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Dimethyl phthalate	<0.20		0.20	0.0085	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Di-n-butyl phthalate	<0.20		0.20	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Di-n-octyl phthalate	<0.39		0.39	0.27	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Fluoranthene	0.020	J	0.039	0.0091	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Fluorene	<0.039		0.039	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Hexachlorobenzene	<0.079		0.079	0.0075	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Hexachlorocyclopentadiene	<0.79		0.79	0.41	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☼	05/10/23 07:54	05/11/23 12:51	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B178

Lab Sample ID: 500-233041-3

Date Collected: 04/28/23 09:20

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 82.8

Method: SW846 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	0.038	mg/Kg	☆	05/10/23 07:54	05/11/23 12:51	1
Isophorone	<0.20		0.20	0.020	mg/Kg	☆	05/10/23 07:54	05/11/23 12:51	1
Naphthalene	<0.039		0.039	0.0071	mg/Kg	☆	05/10/23 07:54	05/11/23 12:51	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☆	05/10/23 07:54	05/11/23 12:51	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.0077	mg/Kg	☆	05/10/23 07:54	05/11/23 12:51	1
N-Nitrosodiphenylamine	<0.20		0.20	0.023	mg/Kg	☆	05/10/23 07:54	05/11/23 12:51	1
Pentachlorophenol	<0.79		0.79	0.098	mg/Kg	☆	05/10/23 07:54	05/11/23 12:51	1
Phenanthrene	<0.039		0.039	0.0085	mg/Kg	☆	05/10/23 07:54	05/11/23 12:51	1
Phenol	<0.20		0.20	0.017	mg/Kg	☆	05/10/23 07:54	05/11/23 12:51	1
Pyrene	0.018	J	0.039	0.011	mg/Kg	☆	05/10/23 07:54	05/11/23 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		31 - 166	05/10/23 07:54	05/11/23 12:51	1
Phenol-d5	56		30 - 153	05/10/23 07:54	05/11/23 12:51	1
Nitrobenzene-d5 (Surr)	60		37 - 147	05/10/23 07:54	05/11/23 12:51	1
2-Fluorobiphenyl	75		43 - 145	05/10/23 07:54	05/11/23 12:51	1
2,4,6-Tribromophenol	75		31 - 143	05/10/23 07:54	05/11/23 12:51	1
Terphenyl-d14 (Surr)	81		42 - 157	05/10/23 07:54	05/11/23 12:51	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.2	0.23	mg/Kg	☆	05/02/23 15:49	05/12/23 01:37	1
Arsenic	9.5		0.60	0.20	mg/Kg	☆	05/02/23 15:49	05/12/23 01:37	1
Barium	64	B	0.60	0.068	mg/Kg	☆	05/02/23 15:49	05/12/23 01:37	1
Beryllium	0.61		0.48	0.11	mg/Kg	☆	05/02/23 15:49	05/12/23 22:23	2
Boron	13		6.0	0.56	mg/Kg	☆	05/02/23 15:49	05/12/23 22:23	2
Cadmium	0.15	B	0.12	0.021	mg/Kg	☆	05/02/23 15:49	05/12/23 01:37	1
Calcium	51000	B	24	4.0	mg/Kg	☆	05/02/23 15:49	05/12/23 22:23	2
Chromium	17		0.60	0.29	mg/Kg	☆	05/02/23 15:49	05/12/23 01:37	1
Cobalt	13		0.30	0.078	mg/Kg	☆	05/02/23 15:49	05/12/23 01:37	1
Copper	26		0.60	0.17	mg/Kg	☆	05/02/23 15:49	05/12/23 01:37	1
Iron	21000	B	12	6.2	mg/Kg	☆	05/02/23 15:49	05/12/23 01:37	1
Lead	21		0.30	0.14	mg/Kg	☆	05/02/23 15:49	05/12/23 01:37	1
Magnesium	26000	B	12	5.9	mg/Kg	☆	05/02/23 15:49	05/12/23 22:23	2
Manganese	540	B	1.2	0.17	mg/Kg	☆	05/02/23 15:49	05/12/23 22:23	2
Nickel	37		0.60	0.17	mg/Kg	☆	05/02/23 15:49	05/12/23 01:37	1
Potassium	2300		30	11	mg/Kg	☆	05/02/23 15:49	05/12/23 01:37	1
Selenium	<1.2		1.2	0.70	mg/Kg	☆	05/02/23 15:49	05/12/23 22:23	2
Silver	<0.30		0.30	0.077	mg/Kg	☆	05/02/23 15:49	05/12/23 01:37	1
Sodium	1300		60	8.8	mg/Kg	☆	05/02/23 15:49	05/12/23 01:37	1
Thallium	<0.60		0.60	0.30	mg/Kg	☆	05/02/23 15:49	05/12/23 01:37	1
Vanadium	22	B	0.30	0.070	mg/Kg	☆	05/02/23 15:49	05/12/23 01:37	1
Zinc	73		1.2	0.52	mg/Kg	☆	05/02/23 15:49	05/12/23 01:37	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:28	05/17/23 16:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:28	05/17/23 16:58	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:58	1
Iron	<0.40		0.40	0.20	mg/L		05/04/23 17:28	05/17/23 16:58	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B178

Lab Sample ID: 500-233041-3

Date Collected: 04/28/23 09:20

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 82.8

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.21		0.0075	0.0075	mg/L		05/04/23 17:28	05/17/23 16:58	1
Manganese	3.0		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:58	1
Nickel	0.026		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:58	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.19		0.050	0.010	mg/L		05/03/23 17:48	05/12/23 03:54	1
Barium	0.72		0.50	0.050	mg/L		05/03/23 17:48	05/12/23 03:54	1
Beryllium	0.0080		0.0040	0.0040	mg/L		05/03/23 17:48	05/12/23 03:54	1
Boron	0.26		0.10	0.050	mg/L		05/03/23 17:48	05/12/23 18:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/12/23 03:54	1
Calcium	38	B	2.5	0.50	mg/L		05/03/23 17:48	05/12/23 03:54	1
Chromium	0.21		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:54	1
Cobalt	0.088		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:54	1
Iron	300		0.40	0.20	mg/L		05/03/23 17:48	05/12/23 18:19	1
Lead	0.18		0.0075	0.0075	mg/L		05/03/23 17:48	05/12/23 03:54	1
Manganese	1.2		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 18:19	1
Nickel	0.29		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:54	1
Potassium	31		2.5	0.50	mg/L		05/03/23 17:48	05/12/23 03:54	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/12/23 03:54	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 03:54	1
Zinc	1.0		0.50	0.020	mg/L		05/03/23 17:48	05/12/23 03:54	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:28	05/08/23 17:38	1

Method: SW846 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		05/03/23 17:48	05/04/23 23:36	1
Thallium	0.0059		0.0020	0.0020	mg/L		05/03/23 17:48	05/04/23 23:36	1

Method: SW846 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		05/11/23 11:40	05/12/23 09:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0099	mg/Kg	✱	05/11/23 16:00	05/12/23 07:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.22	J	0.29	0.14	mg/Kg	✱	05/04/23 08:12	05/04/23 09:55	1
pH (SW846 9045D)	8.6		0.2	0.2	SU			05/04/23 17:42	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B176-1

Lab Sample ID: 500-233041-7

Date Collected: 04/28/23 10:00

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 83.4

Method: SW846 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	✳	04/29/23 13:30	05/03/23 08:58	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
2-Butanone (MEK)	<0.0045	*1	0.0045	0.0020	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
2-Hexanone	<0.0045	*1	0.0045	0.0014	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
4-Methyl-2-pentanone (MIBK)	<0.0045	*1	0.0045	0.0013	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Acetone	<0.018		0.018	0.0078	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Chloromethane	<0.0045	*+	0.0045	0.0018	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Toluene	0.00054	J	0.0018	0.00045	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	✳	04/29/23 13:30	05/03/23 08:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	04/29/23 13:30	05/03/23 08:58	1
4-Bromofluorobenzene (Surr)	93		75 - 131	04/29/23 13:30	05/03/23 08:58	1
Dibromofluoromethane	97		75 - 126	04/29/23 13:30	05/03/23 08:58	1
Toluene-d8 (Surr)	91		75 - 124	04/29/23 13:30	05/03/23 08:58	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20	F1	0.20	0.028	mg/Kg	✳	05/10/23 07:54	05/11/23 14:05	1
1,2-Dichlorobenzene	<0.20	F1	0.20	0.016	mg/Kg	✳	05/10/23 07:54	05/11/23 14:05	1
1,3-Dichlorobenzene	<0.20	F1	0.20	0.018	mg/Kg	✳	05/10/23 07:54	05/11/23 14:05	1
1,4-Dichlorobenzene	<0.20	F1	0.20	0.018	mg/Kg	✳	05/10/23 07:54	05/11/23 14:05	1
2,2'-oxybis[1-chloropropane]	<0.20	F1	0.20	0.028	mg/Kg	✳	05/10/23 07:54	05/11/23 14:05	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B176-1

Lab Sample ID: 500-233041-7

Date Collected: 04/28/23 10:00

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 83.4

Method: SW846 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	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
2,4,6-Trichlorophenol	<0.39	F1	0.39	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
2,4-Dichlorophenol	<0.39	F1	0.39	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
2,4-Dimethylphenol	<0.39	F1	0.39	0.087	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
2,4-Dinitrophenol	<0.79		0.79	0.23	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
2,4-Dinitrotoluene	<0.20	F1	0.20	0.022	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
2,6-Dinitrotoluene	<0.20	F1	0.20	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
2-Chloronaphthalene	<0.20	F1	0.20	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
2-Chlorophenol	<0.20	F1	0.20	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
2-Methylnaphthalene	<0.079	F1	0.079	0.0078	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
2-Methylphenol	<0.20	F1	0.20	0.021	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
2-Nitroaniline	<0.20	F1	0.20	0.021	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
2-Nitrophenol	<0.39	F1	0.39	0.026	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
3 & 4 Methylphenol	<0.20	F1	0.20	0.029	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.22	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
4-Bromophenyl phenyl ether	<0.20	F1	0.20	0.027	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
4-Chloro-3-methylphenol	<0.39	F1	0.39	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
4-Chloroaniline	<0.79		0.79	0.41	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
4-Chlorophenyl phenyl ether	<0.20	F1	0.20	0.051	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
4-Nitroaniline	<0.39	F1	0.39	0.029	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
4-Nitrophenol	<0.79		0.79	0.14	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Acenaphthene	<0.039	F1	0.039	0.0079	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Acenaphthylene	<0.039	F1	0.039	0.0066	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Anthracene	<0.039	F1	0.039	0.0080	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Benzo[a]anthracene	0.016	J F1	0.039	0.0083	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Benzo[a]pyrene	<0.039	F1	0.039	0.038	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Benzo[b]fluoranthene	<0.039	F1	0.039	0.037	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Benzo[g,h,i]perylene	<0.039	F1	0.039	0.0085	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Benzo[k]fluoranthene	<0.039	F1	0.039	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Bis(2-chloroethoxy)methane	<0.20	F1	0.20	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Bis(2-chloroethyl)ether	<0.20	F1	0.20	0.018	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Bis(2-ethylhexyl) phthalate	<0.20	F1	0.20	0.15	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Butyl benzyl phthalate	<0.20	F1	0.20	0.019	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Carbazole	<0.20	F1	0.20	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Chrysene	<0.039	F1	0.039	0.010	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Dibenz(a,h)anthracene	<0.039	F1	0.039	0.039	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Dibenzofuran	<0.20	F1	0.20	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Diethyl phthalate	<0.20	F1	0.20	0.018	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Dimethyl phthalate	<0.20	F1	0.20	0.0085	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Di-n-butyl phthalate	<0.20	F1	0.20	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Di-n-octyl phthalate	<0.39	F1	0.39	0.27	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Fluoranthene	0.017	J F1	0.039	0.0091	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Fluorene	<0.039	F1	0.039	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Hexachlorobenzene	<0.079	F1	0.079	0.0075	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Hexachlorobutadiene	<0.20	F1	0.20	0.022	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Hexachlorocyclopentadiene	<0.79	F1	0.79	0.41	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1
Hexachloroethane	<0.20	F1	0.20	0.020	mg/Kg	☼	05/10/23 07:54	05/11/23 14:05	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B176-1

Lab Sample ID: 500-233041-7

Date Collected: 04/28/23 10:00

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 83.4

Method: SW846 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	F1	0.039	0.038	mg/Kg	✳	05/10/23 07:54	05/11/23 14:05	1
Isophorone	<0.20	F1	0.20	0.020	mg/Kg	✳	05/10/23 07:54	05/11/23 14:05	1
Naphthalene	<0.039	F1	0.039	0.0071	mg/Kg	✳	05/10/23 07:54	05/11/23 14:05	1
Nitrobenzene	<0.039	F1	0.039	0.012	mg/Kg	✳	05/10/23 07:54	05/11/23 14:05	1
N-Nitrosodi-n-propylamine	<0.079	F1	0.079	0.0077	mg/Kg	✳	05/10/23 07:54	05/11/23 14:05	1
N-Nitrosodiphenylamine	<0.20	F1	0.20	0.023	mg/Kg	✳	05/10/23 07:54	05/11/23 14:05	1
Pentachlorophenol	<0.79		0.79	0.098	mg/Kg	✳	05/10/23 07:54	05/11/23 14:05	1
Phenanthrene	<0.039	F1	0.039	0.0085	mg/Kg	✳	05/10/23 07:54	05/11/23 14:05	1
Phenol	<0.20	F1	0.20	0.017	mg/Kg	✳	05/10/23 07:54	05/11/23 14:05	1
Pyrene	0.015	J F1	0.039	0.011	mg/Kg	✳	05/10/23 07:54	05/11/23 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		31 - 166	05/10/23 07:54	05/11/23 14:05	1
Phenol-d5	57		30 - 153	05/10/23 07:54	05/11/23 14:05	1
Nitrobenzene-d5 (Surr)	60		37 - 147	05/10/23 07:54	05/11/23 14:05	1
2-Fluorobiphenyl	73		43 - 145	05/10/23 07:54	05/11/23 14:05	1
2,4,6-Tribromophenol	79		31 - 143	05/10/23 07:54	05/11/23 14:05	1
Terphenyl-d14 (Surr)	76		42 - 157	05/10/23 07:54	05/11/23 14:05	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.2	0.23	mg/Kg	✳	05/02/23 15:49	05/12/23 01:56	1
Arsenic	8.1		0.60	0.20	mg/Kg	✳	05/02/23 15:49	05/12/23 01:56	1
Barium	70	B	0.60	0.068	mg/Kg	✳	05/02/23 15:49	05/12/23 01:56	1
Beryllium	0.58		0.48	0.11	mg/Kg	✳	05/02/23 15:49	05/12/23 22:35	2
Boron	9.7		6.0	0.56	mg/Kg	✳	05/02/23 15:49	05/12/23 22:35	2
Cadmium	0.19	B	0.12	0.022	mg/Kg	✳	05/02/23 15:49	05/12/23 01:56	1
Calcium	57000	B	24	4.1	mg/Kg	✳	05/02/23 15:49	05/12/23 22:35	2
Chromium	15		0.60	0.30	mg/Kg	✳	05/02/23 15:49	05/12/23 01:56	1
Cobalt	9.7		0.30	0.078	mg/Kg	✳	05/02/23 15:49	05/12/23 01:56	1
Copper	22		0.60	0.17	mg/Kg	✳	05/02/23 15:49	05/12/23 01:56	1
Iron	19000	B	24	12	mg/Kg	✳	05/02/23 15:49	05/12/23 22:35	2
Lead	51		0.30	0.14	mg/Kg	✳	05/02/23 15:49	05/12/23 01:56	1
Magnesium	28000	B	12	5.9	mg/Kg	✳	05/02/23 15:49	05/12/23 22:35	2
Manganese	420	B	1.2	0.17	mg/Kg	✳	05/02/23 15:49	05/12/23 22:35	2
Nickel	24		0.60	0.17	mg/Kg	✳	05/02/23 15:49	05/12/23 01:56	1
Potassium	1500		30	11	mg/Kg	✳	05/02/23 15:49	05/12/23 01:56	1
Selenium	<1.2		1.2	0.70	mg/Kg	✳	05/02/23 15:49	05/12/23 22:35	2
Silver	<0.30		0.30	0.077	mg/Kg	✳	05/02/23 15:49	05/12/23 01:56	1
Sodium	2300		60	8.9	mg/Kg	✳	05/02/23 15:49	05/12/23 01:56	1
Thallium	<0.60		0.60	0.30	mg/Kg	✳	05/02/23 15:49	05/12/23 01:56	1
Vanadium	21	B	0.30	0.071	mg/Kg	✳	05/02/23 15:49	05/12/23 01:56	1
Zinc	79		1.2	0.53	mg/Kg	✳	05/02/23 15:49	05/12/23 01:56	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:28	05/17/23 16:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:28	05/17/23 16:13	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:13	1
Iron	1.2		0.40	0.20	mg/L		05/04/23 17:28	05/17/23 16:13	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B176-1

Lab Sample ID: 500-233041-7

Date Collected: 04/28/23 10:00

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 83.4

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.013		0.0075	0.0075	mg/L		05/04/23 17:28	05/17/23 16:13	1
Manganese	7.7		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:13	1
Nickel	0.035		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:13	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.10		0.050	0.010	mg/L		05/03/23 17:48	05/12/23 04:06	1
Barium	0.86		0.50	0.050	mg/L		05/03/23 17:48	05/12/23 04:06	1
Beryllium	0.0064		0.0040	0.0040	mg/L		05/03/23 17:48	05/12/23 04:06	1
Boron	0.15		0.10	0.050	mg/L		05/03/23 17:48	05/12/23 18:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/12/23 04:06	1
Calcium	40	B	2.5	0.50	mg/L		05/03/23 17:48	05/12/23 04:06	1
Chromium	0.16		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 04:06	1
Cobalt	0.083		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 04:06	1
Iron	200		0.40	0.20	mg/L		05/03/23 17:48	05/12/23 18:31	1
Lead	0.43		0.0075	0.0075	mg/L		05/03/23 17:48	05/12/23 04:06	1
Manganese	2.8		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 18:31	1
Nickel	0.21		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 04:06	1
Potassium	22	F1	2.5	0.50	mg/L		05/03/23 17:48	05/12/23 04:06	1
Selenium	<0.050	F1	0.050	0.020	mg/L		05/03/23 17:48	05/12/23 04:06	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/12/23 04:06	1
Zinc	0.75		0.50	0.020	mg/L		05/03/23 17:48	05/12/23 04:06	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:28	05/08/23 17:09	1

Method: SW846 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		05/03/23 17:48	05/04/23 23:49	1
Thallium	0.0036		0.0020	0.0020	mg/L		05/03/23 17:48	05/04/23 23:49	1

Method: SW846 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		05/11/23 11:40	05/12/23 10:01	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0098	mg/Kg	✱	05/11/23 16:00	05/12/23 07:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25	0.13	mg/Kg	✱	05/04/23 08:19	05/04/23 10:08	1
pH (SW846 9045D)	8.6		0.2	0.2	SU			05/04/23 17:52	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B176-2

Lab Sample ID: 500-233041-8

Date Collected: 04/28/23 10:10

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.4

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00053	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00071	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
1,1-Dichloroethene	<0.0016		0.0016	0.00057	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
1,2-Dichloropropane	<0.0016		0.0016	0.00043	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00058	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Acetone	<0.016		0.016	0.0072	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Bromodichloromethane	<0.0016		0.0016	0.00034	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Carbon tetrachloride	<0.0016		0.0016	0.00048	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Chlorobenzene	<0.0016		0.0016	0.00061	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00050	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Dibromochloromethane	<0.0016		0.0016	0.00054	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Ethylbenzene	<0.0016		0.0016	0.00079	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Styrene	<0.0016		0.0016	0.00050	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Toluene	0.00097	J	0.0016	0.00042	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00073	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00058	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Trichloroethene	<0.0016		0.0016	0.00056	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Vinyl chloride	<0.0016		0.0016	0.00073	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	✱	04/29/23 13:30	05/03/23 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	04/29/23 13:30	05/03/23 13:45	1
4-Bromofluorobenzene (Surr)	92		75 - 131	04/29/23 13:30	05/03/23 13:45	1
Dibromofluoromethane	99		75 - 126	04/29/23 13:30	05/03/23 13:45	1
Toluene-d8 (Surr)	90		75 - 124	04/29/23 13:30	05/03/23 13:45	1

Method: SW846 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	0.027	mg/Kg	✱	05/10/23 07:54	05/11/23 15:19	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	✱	05/10/23 07:54	05/11/23 15:19	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	✱	05/10/23 07:54	05/11/23 15:19	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	✱	05/10/23 07:54	05/11/23 15:19	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	✱	05/10/23 07:54	05/11/23 15:19	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B176-2

Lab Sample ID: 500-233041-8

Date Collected: 04/28/23 10:10

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
2,4-Dimethylphenol	<0.37		0.37	0.083	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
2,4-Dinitrophenol	<0.75		0.75	0.21	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
2-Methylnaphthalene	<0.075		0.075	0.0075	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.030	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.21	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.025	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
4-Chloro-3-methylphenol	<0.37		0.37	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
4-Chloroaniline	<0.75		0.75	0.39	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
4-Nitroaniline	<0.37		0.37	0.027	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
4-Nitrophenol	<0.75		0.75	0.14	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Acenaphthene	<0.037		0.037	0.0076	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Acenaphthylene	<0.037		0.037	0.0063	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Anthracene	<0.037		0.037	0.0076	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Benzo[b]fluoranthene	<0.037		0.037	0.035	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Benzo[g,h,i]perylene	<0.037		0.037	0.0080	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Butyl benzyl phthalate	<0.19		0.19	0.018	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Chrysene	<0.037		0.037	0.0098	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Dimethyl phthalate	<0.19		0.19	0.0081	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Fluoranthene	<0.037		0.037	0.0086	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Hexachlorobenzene	<0.075		0.075	0.0071	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Hexachlorocyclopentadiene	<0.75		0.75	0.39	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☼	05/10/23 07:54	05/11/23 15:19	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B176-2

Lab Sample ID: 500-233041-8

Date Collected: 04/28/23 10:10

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.036	mg/Kg	✳	05/10/23 07:54	05/11/23 15:19	1
Isophorone	<0.19		0.19	0.019	mg/Kg	✳	05/10/23 07:54	05/11/23 15:19	1
Naphthalene	<0.037		0.037	0.0067	mg/Kg	✳	05/10/23 07:54	05/11/23 15:19	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	✳	05/10/23 07:54	05/11/23 15:19	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.0073	mg/Kg	✳	05/10/23 07:54	05/11/23 15:19	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	✳	05/10/23 07:54	05/11/23 15:19	1
Pentachlorophenol	<0.75		0.75	0.093	mg/Kg	✳	05/10/23 07:54	05/11/23 15:19	1
Phenanthrene	<0.037		0.037	0.0081	mg/Kg	✳	05/10/23 07:54	05/11/23 15:19	1
Phenol	<0.19		0.19	0.016	mg/Kg	✳	05/10/23 07:54	05/11/23 15:19	1
Pyrene	<0.037		0.037	0.010	mg/Kg	✳	05/10/23 07:54	05/11/23 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	41		31 - 166				05/10/23 07:54	05/11/23 15:19	1
Phenol-d5	44		30 - 153				05/10/23 07:54	05/11/23 15:19	1
Nitrobenzene-d5 (Surr)	47		37 - 147				05/10/23 07:54	05/11/23 15:19	1
2-Fluorobiphenyl	56		43 - 145				05/10/23 07:54	05/11/23 15:19	1
2,4,6-Tribromophenol	68		31 - 143				05/10/23 07:54	05/11/23 15:19	1
Terphenyl-d14 (Surr)	74		42 - 157				05/10/23 07:54	05/11/23 15:19	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.1	0.22	mg/Kg	✳	05/02/23 15:49	05/12/23 01:59	1
Arsenic	8.5		0.57	0.20	mg/Kg	✳	05/02/23 15:49	05/12/23 01:59	1
Barium	43	B	0.57	0.065	mg/Kg	✳	05/02/23 15:49	05/12/23 01:59	1
Beryllium	0.80	J	1.1	0.27	mg/Kg	✳	05/02/23 15:49	05/12/23 22:38	5
Boron	14		14	1.3	mg/Kg	✳	05/02/23 15:49	05/12/23 22:38	5
Cadmium	0.071	J B	0.11	0.021	mg/Kg	✳	05/02/23 15:49	05/12/23 01:59	1
Calcium	67000	B	57	9.7	mg/Kg	✳	05/02/23 15:49	05/12/23 22:38	5
Chromium	16		0.57	0.28	mg/Kg	✳	05/02/23 15:49	05/12/23 01:59	1
Cobalt	12		0.29	0.075	mg/Kg	✳	05/02/23 15:49	05/12/23 01:59	1
Copper	23		0.57	0.16	mg/Kg	✳	05/02/23 15:49	05/12/23 01:59	1
Iron	23000	B	57	30	mg/Kg	✳	05/02/23 15:49	05/12/23 22:38	5
Lead	13		0.29	0.13	mg/Kg	✳	05/02/23 15:49	05/12/23 01:59	1
Magnesium	30000	B	29	14	mg/Kg	✳	05/02/23 15:49	05/12/23 22:38	5
Manganese	430	B	2.9	0.42	mg/Kg	✳	05/02/23 15:49	05/12/23 22:38	5
Nickel	32		0.57	0.17	mg/Kg	✳	05/02/23 15:49	05/12/23 01:59	1
Potassium	2200		29	10	mg/Kg	✳	05/02/23 15:49	05/12/23 01:59	1
Selenium	<2.9		2.9	1.7	mg/Kg	✳	05/02/23 15:49	05/12/23 22:38	5
Silver	<0.29		0.29	0.074	mg/Kg	✳	05/02/23 15:49	05/12/23 01:59	1
Sodium	1100		57	8.5	mg/Kg	✳	05/02/23 15:49	05/12/23 01:59	1
Thallium	0.32	J	0.57	0.29	mg/Kg	✳	05/02/23 15:49	05/12/23 01:59	1
Vanadium	20	B	0.29	0.068	mg/Kg	✳	05/02/23 15:49	05/12/23 01:59	1
Zinc	65		1.1	0.50	mg/Kg	✳	05/02/23 15:49	05/12/23 01:59	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:28	05/17/23 17:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:28	05/17/23 17:02	1
Iron	<0.40		0.40	0.20	mg/L		05/04/23 17:28	05/17/23 17:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/23 17:28	05/17/23 17:02	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B176-2

Lab Sample ID: 500-233041-8

Date Collected: 04/28/23 10:10

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.4

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.4		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 17:02	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 17:02	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.070		0.050	0.010	mg/L		05/03/23 17:48	05/16/23 21:41	1
Barium	0.31	J	0.50	0.050	mg/L		05/03/23 17:48	05/16/23 21:41	1
Beryllium	0.0048		0.0040	0.0040	mg/L		05/03/23 17:48	05/16/23 21:41	1
Boron	0.10		0.10	0.050	mg/L		05/03/23 17:48	05/16/23 21:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/16/23 21:41	1
Calcium	39		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 21:41	1
Chromium	0.096		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:41	1
Cobalt	0.045		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:41	1
Iron	120		0.40	0.20	mg/L		05/03/23 17:48	05/16/23 21:41	1
Lead	0.058		0.0075	0.0075	mg/L		05/03/23 17:48	05/16/23 21:41	1
Manganese	0.52		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:41	1
Nickel	0.15		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:41	1
Potassium	17		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 21:41	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/16/23 21:41	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:41	1
Zinc	0.34	J	0.50	0.020	mg/L		05/03/23 17:48	05/16/23 21:41	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:28	05/08/23 17:44	1

Method: SW846 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		05/03/23 17:48	05/05/23 00:01	1
Thallium	0.0022		0.0020	0.0020	mg/L		05/03/23 17:48	05/05/23 00:01	1

Method: SW846 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		05/11/23 11:40	05/12/23 11:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0095	mg/Kg	☆	05/11/23 16:00	05/12/23 07:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	☆	05/04/23 08:20	05/04/23 10:10	1
pH (SW846 9045D)	7.8		0.2	0.2	SU			05/04/23 17:54	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B176-2 Dup

Lab Sample ID: 500-233041-9

Date Collected: 04/28/23 10:20

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.3

Method: SW846 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	✱	04/29/23 13:30	05/03/23 11:46	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Acetone	<0.019		0.019	0.0083	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Toluene	0.00099	J	0.0019	0.00048	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	✱	04/29/23 13:30	05/03/23 11:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		70 - 134	04/29/23 13:30	05/03/23 11:46	1
4-Bromofluorobenzene (Surr)	103		75 - 131	04/29/23 13:30	05/03/23 11:46	1
Dibromofluoromethane	128	S1+	75 - 126	04/29/23 13:30	05/03/23 11:46	1
Toluene-d8 (Surr)	109		75 - 124	04/29/23 13:30	05/03/23 11:46	1

Method: SW846 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	0.027	mg/Kg	✱	05/10/23 07:54	05/11/23 15:43	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	✱	05/10/23 07:54	05/11/23 15:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	✱	05/10/23 07:54	05/11/23 15:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	✱	05/10/23 07:54	05/11/23 15:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	✱	05/10/23 07:54	05/11/23 15:43	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B176-2 Dup

Lab Sample ID: 500-233041-9

Date Collected: 04/28/23 10:20

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
2,4-Dimethylphenol	<0.37		0.37	0.084	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
2,4-Dinitrophenol	<0.76		0.76	0.22	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
2-Methylnaphthalene	<0.076		0.076	0.0076	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
2-Nitrophenol	<0.37		0.37	0.026	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.21	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
4-Chloro-3-methylphenol	<0.37		0.37	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
4-Chloroaniline	<0.76		0.76	0.40	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
4-Nitroaniline	<0.37		0.37	0.028	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
4-Nitrophenol	<0.76		0.76	0.14	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Acenaphthene	<0.037		0.037	0.0077	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Acenaphthylene	<0.037		0.037	0.0064	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Anthracene	<0.037		0.037	0.0077	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Benzo[a]anthracene	<0.037		0.037	0.0080	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Benzo[b]fluoranthene	<0.037		0.037	0.036	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Benzo[g,h,i]perylene	<0.037		0.037	0.0082	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Chrysene	<0.037		0.037	0.0099	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Dimethyl phthalate	<0.19		0.19	0.0082	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Hexachlorobenzene	<0.076		0.076	0.0072	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Hexachlorocyclopentadiene	<0.76		0.76	0.40	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☼	05/10/23 07:54	05/11/23 15:43	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B176-2 Dup

Lab Sample ID: 500-233041-9

Date Collected: 04/28/23 10:20

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.037	mg/Kg	✳	05/10/23 07:54	05/11/23 15:43	1
Isophorone	<0.19		0.19	0.019	mg/Kg	✳	05/10/23 07:54	05/11/23 15:43	1
Naphthalene	<0.037		0.037	0.0068	mg/Kg	✳	05/10/23 07:54	05/11/23 15:43	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	✳	05/10/23 07:54	05/11/23 15:43	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.0074	mg/Kg	✳	05/10/23 07:54	05/11/23 15:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	✳	05/10/23 07:54	05/11/23 15:43	1
Pentachlorophenol	<0.76		0.76	0.094	mg/Kg	✳	05/10/23 07:54	05/11/23 15:43	1
Phenanthrene	<0.037		0.037	0.0082	mg/Kg	✳	05/10/23 07:54	05/11/23 15:43	1
Phenol	<0.19		0.19	0.016	mg/Kg	✳	05/10/23 07:54	05/11/23 15:43	1
Pyrene	<0.037		0.037	0.010	mg/Kg	✳	05/10/23 07:54	05/11/23 15:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		31 - 166				05/10/23 07:54	05/11/23 15:43	1
Phenol-d5	60		30 - 153				05/10/23 07:54	05/11/23 15:43	1
Nitrobenzene-d5 (Surr)	64		37 - 147				05/10/23 07:54	05/11/23 15:43	1
2-Fluorobiphenyl	81		43 - 145				05/10/23 07:54	05/11/23 15:43	1
2,4,6-Tribromophenol	81		31 - 143				05/10/23 07:54	05/11/23 15:43	1
Terphenyl-d14 (Surr)	90		42 - 157				05/10/23 07:54	05/11/23 15:43	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	✳	05/02/23 15:49	05/12/23 02:02	1
Arsenic	7.5		0.58	0.20	mg/Kg	✳	05/02/23 15:49	05/12/23 02:02	1
Barium	48 B		0.58	0.066	mg/Kg	✳	05/02/23 15:49	05/12/23 02:02	1
Beryllium	0.61		0.47	0.11	mg/Kg	✳	05/02/23 15:49	05/12/23 22:42	2
Boron	13		5.8	0.54	mg/Kg	✳	05/02/23 15:49	05/12/23 22:42	2
Cadmium	0.087 J B		0.12	0.021	mg/Kg	✳	05/02/23 15:49	05/12/23 02:02	1
Calcium	58000 B		23	3.9	mg/Kg	✳	05/02/23 15:49	05/12/23 22:42	2
Chromium	16		0.58	0.29	mg/Kg	✳	05/02/23 15:49	05/12/23 02:02	1
Cobalt	13		0.29	0.076	mg/Kg	✳	05/02/23 15:49	05/12/23 02:02	1
Copper	23		0.58	0.16	mg/Kg	✳	05/02/23 15:49	05/12/23 02:02	1
Iron	21000 B		23	12	mg/Kg	✳	05/02/23 15:49	05/12/23 22:42	2
Lead	14		0.29	0.13	mg/Kg	✳	05/02/23 15:49	05/12/23 02:02	1
Magnesium	27000 B		12	5.8	mg/Kg	✳	05/02/23 15:49	05/12/23 22:42	2
Manganese	430 B		1.2	0.17	mg/Kg	✳	05/02/23 15:49	05/12/23 22:42	2
Nickel	34		0.58	0.17	mg/Kg	✳	05/02/23 15:49	05/12/23 02:02	1
Potassium	2200		29	10	mg/Kg	✳	05/02/23 15:49	05/12/23 02:02	1
Selenium	0.81 J		1.2	0.68	mg/Kg	✳	05/02/23 15:49	05/12/23 22:42	2
Silver	<0.29		0.29	0.075	mg/Kg	✳	05/02/23 15:49	05/12/23 02:02	1
Sodium	1100		58	8.6	mg/Kg	✳	05/02/23 15:49	05/12/23 02:02	1
Thallium	<0.58		0.58	0.29	mg/Kg	✳	05/02/23 15:49	05/12/23 02:02	1
Vanadium	21 B		0.29	0.069	mg/Kg	✳	05/02/23 15:49	05/12/23 02:02	1
Zinc	64		1.2	0.51	mg/Kg	✳	05/02/23 15:49	05/12/23 02:02	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:28	05/17/23 16:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:28	05/17/23 16:16	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:16	1
Iron	<0.40		0.40	0.20	mg/L		05/04/23 17:28	05/17/23 16:16	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B176-2 Dup

Lab Sample ID: 500-233041-9

Date Collected: 04/28/23 10:20

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.3

Method: SW846 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		05/04/23 17:28	05/17/23 16:16	1
Manganese	0.82		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:16	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:16	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13		0.050	0.010	mg/L		05/03/23 17:48	05/16/23 21:44	1
Barium	0.68		0.50	0.050	mg/L		05/03/23 17:48	05/16/23 21:44	1
Beryllium	0.011		0.0040	0.0040	mg/L		05/03/23 17:48	05/16/23 21:44	1
Boron	0.23		0.10	0.050	mg/L		05/03/23 17:48	05/16/23 21:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/16/23 21:44	1
Calcium	74		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 21:44	1
Chromium	0.21		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:44	1
Cobalt	0.10		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:44	1
Iron	240		0.40	0.20	mg/L		05/03/23 17:48	05/16/23 21:44	1
Lead	0.13		0.0075	0.0075	mg/L		05/03/23 17:48	05/16/23 21:44	1
Manganese	1.1		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:44	1
Nickel	0.32		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:44	1
Potassium	40		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 21:44	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/16/23 21:44	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:44	1
Zinc	0.76		0.50	0.020	mg/L		05/03/23 17:48	05/16/23 21:44	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:28	05/08/23 17:11	1

Method: SW846 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		05/03/23 17:48	05/05/23 00:03	1
Thallium	0.0046		0.0020	0.0020	mg/L		05/03/23 17:48	05/05/23 00:03	1

Method: SW846 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		05/11/23 11:40	05/12/23 11:03	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0096	mg/Kg	✱	05/11/23 16:00	05/12/23 07:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.24		0.24	0.12	mg/Kg	✱	05/04/23 08:21	05/04/23 10:12	1
pH (SW846 9045D)	7.9		0.2	0.2	SU			05/04/23 17:57	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B176-3

Lab Sample ID: 500-233041-10

Date Collected: 04/28/23 10:30

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 84.7

Method: SW846 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	☆	04/29/23 13:30	05/03/23 12:10	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Acetone	<0.018		0.018	0.0080	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Bromodichloromethane	<0.0018		0.0018	0.00038	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00052	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00056	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Toluene	0.00064	J	0.0018	0.00047	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Vinyl chloride	<0.0018		0.0018	0.00082	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☆	04/29/23 13:30	05/03/23 12:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	04/29/23 13:30	05/03/23 12:10	1
4-Bromofluorobenzene (Surr)	118		75 - 131	04/29/23 13:30	05/03/23 12:10	1
Dibromofluoromethane	126		75 - 126	04/29/23 13:30	05/03/23 12:10	1
Toluene-d8 (Surr)	116		75 - 124	04/29/23 13:30	05/03/23 12:10	1

Method: SW846 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	0.027	mg/Kg	☆	05/10/23 07:54	05/11/23 16:08	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	05/10/23 07:54	05/11/23 16:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	05/10/23 07:54	05/11/23 16:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	05/10/23 07:54	05/11/23 16:08	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	05/10/23 07:54	05/11/23 16:08	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B176-3

Lab Sample ID: 500-233041-10

Date Collected: 04/28/23 10:30

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 84.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.014	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
2,4-Dimethylphenol	<0.37		0.37	0.083	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
2,4-Dinitrophenol	<0.75		0.75	0.21	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
2-Methylnaphthalene	<0.075		0.075	0.0075	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.030	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.21	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.025	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
4-Chloro-3-methylphenol	<0.37		0.37	0.014	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
4-Chloroaniline	<0.75		0.75	0.39	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
4-Nitroaniline	<0.37		0.37	0.027	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
4-Nitrophenol	<0.75		0.75	0.14	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Acenaphthene	<0.037		0.037	0.0076	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Acenaphthylene	<0.037		0.037	0.0063	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Anthracene	<0.037		0.037	0.0076	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Benzo[a]anthracene	0.015 J		0.037	0.0079	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Benzo[b]fluoranthene	<0.037		0.037	0.035	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Benzo[g,h,i]perylene	<0.037		0.037	0.0080	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Butyl benzyl phthalate	<0.19		0.19	0.018	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Carbazole	<0.19		0.19	0.015	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Chrysene	0.013 J		0.037	0.0098	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Dimethyl phthalate	<0.19		0.19	0.0081	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Fluoranthene	<0.037		0.037	0.0086	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Fluorene	<0.037		0.037	0.011	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Hexachlorobenzene	<0.075		0.075	0.0071	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Hexachlorocyclopentadiene	<0.75		0.75	0.39	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	✳	05/10/23 07:54	05/11/23 16:08	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B176-3

Lab Sample ID: 500-233041-10

Date Collected: 04/28/23 10:30

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 84.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.036	mg/Kg	☆	05/10/23 07:54	05/11/23 16:08	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☆	05/10/23 07:54	05/11/23 16:08	1
Naphthalene	<0.037		0.037	0.0067	mg/Kg	☆	05/10/23 07:54	05/11/23 16:08	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☆	05/10/23 07:54	05/11/23 16:08	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.0073	mg/Kg	☆	05/10/23 07:54	05/11/23 16:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☆	05/10/23 07:54	05/11/23 16:08	1
Pentachlorophenol	<0.75		0.75	0.093	mg/Kg	☆	05/10/23 07:54	05/11/23 16:08	1
Phenanthrene	<0.037		0.037	0.0081	mg/Kg	☆	05/10/23 07:54	05/11/23 16:08	1
Phenol	<0.19		0.19	0.016	mg/Kg	☆	05/10/23 07:54	05/11/23 16:08	1
Pyrene	<0.037		0.037	0.010	mg/Kg	☆	05/10/23 07:54	05/11/23 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	37		31 - 166	05/10/23 07:54	05/11/23 16:08	1
Phenol-d5	42		30 - 153	05/10/23 07:54	05/11/23 16:08	1
Nitrobenzene-d5 (Surr)	38		37 - 147	05/10/23 07:54	05/11/23 16:08	1
2-Fluorobiphenyl	47		43 - 145	05/10/23 07:54	05/11/23 16:08	1
2,4,6-Tribromophenol	63		31 - 143	05/10/23 07:54	05/11/23 16:08	1
Terphenyl-d14 (Surr)	64		42 - 157	05/10/23 07:54	05/11/23 16:08	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J	1.2	0.23	mg/Kg	☆	05/02/23 15:49	05/12/23 02:06	1
Arsenic	5.7		0.58	0.20	mg/Kg	☆	05/02/23 15:49	05/12/23 02:06	1
Barium	40	B	0.58	0.066	mg/Kg	☆	05/02/23 15:49	05/12/23 02:06	1
Beryllium	0.61		0.46	0.11	mg/Kg	☆	05/02/23 15:49	05/12/23 22:45	2
Boron	13		5.8	0.54	mg/Kg	☆	05/02/23 15:49	05/12/23 22:45	2
Cadmium	0.043	J B	0.12	0.021	mg/Kg	☆	05/02/23 15:49	05/12/23 02:06	1
Calcium	55000	B	23	3.9	mg/Kg	☆	05/02/23 15:49	05/12/23 22:45	2
Chromium	17		0.58	0.29	mg/Kg	☆	05/02/23 15:49	05/12/23 02:06	1
Cobalt	11		0.29	0.076	mg/Kg	☆	05/02/23 15:49	05/12/23 02:06	1
Copper	22		0.58	0.16	mg/Kg	☆	05/02/23 15:49	05/12/23 02:06	1
Iron	20000	B	23	12	mg/Kg	☆	05/02/23 15:49	05/12/23 22:45	2
Lead	12		0.29	0.13	mg/Kg	☆	05/02/23 15:49	05/12/23 02:06	1
Magnesium	27000	B	12	5.8	mg/Kg	☆	05/02/23 15:49	05/12/23 22:45	2
Manganese	360	B	1.2	0.17	mg/Kg	☆	05/02/23 15:49	05/12/23 22:45	2
Nickel	27		0.58	0.17	mg/Kg	☆	05/02/23 15:49	05/12/23 02:06	1
Potassium	2400		29	10	mg/Kg	☆	05/02/23 15:49	05/12/23 02:06	1
Selenium	1.4		1.2	0.68	mg/Kg	☆	05/02/23 15:49	05/12/23 22:45	2
Silver	<0.29		0.29	0.075	mg/Kg	☆	05/02/23 15:49	05/12/23 02:06	1
Sodium	550		58	8.6	mg/Kg	☆	05/02/23 15:49	05/12/23 02:06	1
Thallium	<0.58		0.58	0.29	mg/Kg	☆	05/02/23 15:49	05/12/23 02:06	1
Vanadium	21	B	0.29	0.069	mg/Kg	☆	05/02/23 15:49	05/12/23 02:06	1
Zinc	62		1.2	0.51	mg/Kg	☆	05/02/23 15:49	05/12/23 02:06	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:28	05/17/23 17:05	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 17:05	1
Iron	<0.40		0.40	0.20	mg/L		05/04/23 17:28	05/17/23 17:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/23 17:28	05/17/23 17:05	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B176-3

Lab Sample ID: 500-233041-10

Date Collected: 04/28/23 10:30

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 84.7

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.5		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 17:05	1
Nickel	0.029		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 17:05	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.049	J	0.050	0.010	mg/L		05/03/23 17:48	05/16/23 21:48	1
Barium	0.32	J	0.50	0.050	mg/L		05/03/23 17:48	05/16/23 21:48	1
Beryllium	0.0055		0.0040	0.0040	mg/L		05/03/23 17:48	05/16/23 21:48	1
Boron	0.16		0.10	0.050	mg/L		05/03/23 17:48	05/16/23 21:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/16/23 21:48	1
Calcium	53		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 21:48	1
Chromium	0.12		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:48	1
Cobalt	0.029		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:48	1
Iron	110		0.40	0.20	mg/L		05/03/23 17:48	05/16/23 21:48	1
Lead	0.050		0.0075	0.0075	mg/L		05/03/23 17:48	05/16/23 21:48	1
Manganese	0.50		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:48	1
Nickel	0.12		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:48	1
Potassium	27		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 21:48	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/16/23 21:48	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:48	1
Zinc	0.33	J	0.50	0.020	mg/L		05/03/23 17:48	05/16/23 21:48	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:28	05/08/23 17:46	1

Method: SW846 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		05/03/23 17:48	05/05/23 00:11	1
Thallium	0.0022		0.0020	0.0020	mg/L		05/03/23 17:48	05/05/23 00:11	1

Method: SW846 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		05/11/23 11:40	05/12/23 11:05	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0098	mg/Kg	☆	05/11/23 16:00	05/12/23 07:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25	0.13	mg/Kg	☆	05/04/23 08:22	05/04/23 10:14	1
pH (SW846 9045D)	7.9		0.2	0.2	SU			05/04/23 18:01	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B175-1

Lab Sample ID: 500-233041-11

Date Collected: 04/28/23 10:40

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 83.6

Method: SW846 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	0.00057	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Acetone	0.011	J	0.017	0.0074	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Chloroethane	<0.0042		0.0042	0.0013	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Toluene	0.00054	J	0.0017	0.00043	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	✳	04/29/23 13:30	05/03/23 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	04/29/23 13:30	05/03/23 12:35	1
4-Bromofluorobenzene (Surr)	103		75 - 131	04/29/23 13:30	05/03/23 12:35	1
Dibromofluoromethane	128	S1+	75 - 126	04/29/23 13:30	05/03/23 12:35	1
Toluene-d8 (Surr)	109		75 - 124	04/29/23 13:30	05/03/23 12:35	1

Method: SW846 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	0.027	mg/Kg	✳	05/10/23 07:54	05/11/23 16:33	1
1,2-Dichlorobenzene	<0.19		0.19	0.016	mg/Kg	✳	05/10/23 07:54	05/11/23 16:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	✳	05/10/23 07:54	05/11/23 16:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	✳	05/10/23 07:54	05/11/23 16:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	✳	05/10/23 07:54	05/11/23 16:33	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B175-1

Lab Sample ID: 500-233041-11

Date Collected: 04/28/23 10:40

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 83.6

Method: SW846 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	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
2,4-Dinitrophenol	<0.77		0.77	0.22	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
2-Methylnaphthalene	<0.077		0.077	0.0077	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.22	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
4-Chloroaniline	<0.77		0.77	0.40	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
4-Nitrophenol	<0.77		0.77	0.14	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Acenaphthene	<0.038		0.038	0.0078	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Acenaphthylene	<0.038		0.038	0.0065	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Anthracene	<0.038		0.038	0.0078	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Benzo[a]pyrene	<0.038		0.038	0.037	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Benzo[g,h,i]perylene	<0.038		0.038	0.0083	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Benzo[k]fluoranthene	<0.038		0.038	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Dibenzofuran	<0.19		0.19	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Dimethyl phthalate	<0.19		0.19	0.0083	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Fluoranthene	<0.038		0.038	0.0089	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Hexachlorobenzene	<0.077		0.077	0.0073	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Hexachlorobutadiene	<0.19		0.19	0.022	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Hexachlorocyclopentadiene	<0.77		0.77	0.40	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☼	05/10/23 07:54	05/11/23 16:33	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B175-1

Lab Sample ID: 500-233041-11

Date Collected: 04/28/23 10:40

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 83.6

Method: SW846 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	0.037	mg/Kg	✳	05/10/23 07:54	05/11/23 16:33	1
Isophorone	<0.19		0.19	0.020	mg/Kg	✳	05/10/23 07:54	05/11/23 16:33	1
Naphthalene	<0.038		0.038	0.0069	mg/Kg	✳	05/10/23 07:54	05/11/23 16:33	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	✳	05/10/23 07:54	05/11/23 16:33	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.0075	mg/Kg	✳	05/10/23 07:54	05/11/23 16:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	✳	05/10/23 07:54	05/11/23 16:33	1
Pentachlorophenol	<0.77		0.77	0.095	mg/Kg	✳	05/10/23 07:54	05/11/23 16:33	1
Phenanthrene	<0.038		0.038	0.0083	mg/Kg	✳	05/10/23 07:54	05/11/23 16:33	1
Phenol	<0.19		0.19	0.017	mg/Kg	✳	05/10/23 07:54	05/11/23 16:33	1
Pyrene	<0.038		0.038	0.010	mg/Kg	✳	05/10/23 07:54	05/11/23 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	39		31 - 166	05/10/23 07:54	05/11/23 16:33	1
Phenol-d5	43		30 - 153	05/10/23 07:54	05/11/23 16:33	1
Nitrobenzene-d5 (Surr)	42		37 - 147	05/10/23 07:54	05/11/23 16:33	1
2-Fluorobiphenyl	51		43 - 145	05/10/23 07:54	05/11/23 16:33	1
2,4,6-Tribromophenol	57		31 - 143	05/10/23 07:54	05/11/23 16:33	1
Terphenyl-d14 (Surr)	61		42 - 157	05/10/23 07:54	05/11/23 16:33	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.24	J	1.2	0.23	mg/Kg	✳	05/02/23 15:49	05/12/23 02:09	1
Arsenic	7.9		0.59	0.20	mg/Kg	✳	05/02/23 15:49	05/12/23 02:09	1
Barium	43	B	0.59	0.067	mg/Kg	✳	05/02/23 15:49	05/12/23 02:09	1
Beryllium	0.53		0.47	0.11	mg/Kg	✳	05/02/23 15:49	05/12/23 22:48	2
Boron	9.6		5.9	0.55	mg/Kg	✳	05/02/23 15:49	05/12/23 22:48	2
Cadmium	0.093	J B	0.12	0.021	mg/Kg	✳	05/02/23 15:49	05/12/23 02:09	1
Calcium	51000	B	24	4.0	mg/Kg	✳	05/02/23 15:49	05/12/23 22:48	2
Chromium	12		0.59	0.29	mg/Kg	✳	05/02/23 15:49	05/12/23 02:09	1
Cobalt	9.7		0.30	0.078	mg/Kg	✳	05/02/23 15:49	05/12/23 02:09	1
Copper	20		0.59	0.17	mg/Kg	✳	05/02/23 15:49	05/12/23 02:09	1
Iron	18000	B	24	12	mg/Kg	✳	05/02/23 15:49	05/12/23 22:48	2
Lead	11		0.30	0.14	mg/Kg	✳	05/02/23 15:49	05/12/23 02:09	1
Magnesium	25000	B	12	5.9	mg/Kg	✳	05/02/23 15:49	05/12/23 22:48	2
Manganese	400	B	1.2	0.17	mg/Kg	✳	05/02/23 15:49	05/12/23 22:48	2
Nickel	24		0.59	0.17	mg/Kg	✳	05/02/23 15:49	05/12/23 02:09	1
Potassium	1500		30	10	mg/Kg	✳	05/02/23 15:49	05/12/23 02:09	1
Selenium	<1.2		1.2	0.70	mg/Kg	✳	05/02/23 15:49	05/12/23 22:48	2
Silver	<0.30		0.30	0.076	mg/Kg	✳	05/02/23 15:49	05/12/23 02:09	1
Sodium	370		59	8.8	mg/Kg	✳	05/02/23 15:49	05/12/23 02:09	1
Thallium	<0.59		0.59	0.30	mg/Kg	✳	05/02/23 15:49	05/12/23 02:09	1
Vanadium	17	B	0.30	0.070	mg/Kg	✳	05/02/23 15:49	05/12/23 02:09	1
Zinc	53		1.2	0.52	mg/Kg	✳	05/02/23 15:49	05/12/23 02:09	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:28	05/17/23 17:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:28	05/17/23 17:08	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 17:08	1
Iron	<0.40		0.40	0.20	mg/L		05/04/23 17:28	05/17/23 17:08	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B175-1

Lab Sample ID: 500-233041-11

Date Collected: 04/28/23 10:40

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 83.6

Method: SW846 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		05/04/23 17:28	05/17/23 17:08	1
Manganese	5.1		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 17:08	1
Nickel	0.053		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 17:08	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.050	0.010	mg/L		05/03/23 17:48	05/16/23 21:51	1
Barium	0.69		0.50	0.050	mg/L		05/03/23 17:48	05/16/23 21:51	1
Beryllium	0.0084		0.0040	0.0040	mg/L		05/03/23 17:48	05/16/23 21:51	1
Boron	0.18		0.10	0.050	mg/L		05/03/23 17:48	05/16/23 21:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/16/23 21:51	1
Calcium	54		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 21:51	1
Chromium	0.15		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:51	1
Cobalt	0.064		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:51	1
Iron	190		0.40	0.20	mg/L		05/03/23 17:48	05/16/23 21:51	1
Lead	0.078		0.0075	0.0075	mg/L		05/03/23 17:48	05/16/23 21:51	1
Manganese	1.2		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:51	1
Nickel	0.23		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:51	1
Potassium	30		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 21:51	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/16/23 21:51	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:51	1
Zinc	0.60		0.50	0.020	mg/L		05/03/23 17:48	05/16/23 21:51	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:28	05/08/23 17:48	1

Method: SW846 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		05/03/23 17:48	05/05/23 00:14	1
Thallium	0.0061		0.0020	0.0020	mg/L		05/03/23 17:48	05/05/23 00:14	1

Method: SW846 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		05/11/23 11:40	05/12/23 11:07	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0095	mg/Kg	✱	05/11/23 16:00	05/12/23 07:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	✱	05/04/23 08:23	05/04/23 10:15	1
pH (SW846 9045D)	8.5		0.2	0.2	SU			05/04/23 18:06	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B175-2

Lab Sample ID: 500-233041-12

Date Collected: 04/28/23 10:50

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.7

Method: SW846 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	✱	04/29/23 13:30	05/03/23 12:59	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Acetone	<0.018		0.018	0.0078	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Toluene	0.00068	J	0.0018	0.00045	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	✱	04/29/23 13:30	05/03/23 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	04/29/23 13:30	05/03/23 12:59	1
4-Bromofluorobenzene (Surr)	110		75 - 131	04/29/23 13:30	05/03/23 12:59	1
Dibromofluoromethane	121		75 - 126	04/29/23 13:30	05/03/23 12:59	1
Toluene-d8 (Surr)	115		75 - 124	04/29/23 13:30	05/03/23 12:59	1

Method: SW846 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	0.027	mg/Kg	✱	05/10/23 07:54	05/11/23 16:58	1
1,2-Dichlorobenzene	<0.19		0.19	0.016	mg/Kg	✱	05/10/23 07:54	05/11/23 16:58	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	✱	05/10/23 07:54	05/11/23 16:58	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	✱	05/10/23 07:54	05/11/23 16:58	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	✱	05/10/23 07:54	05/11/23 16:58	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B175-2

Lab Sample ID: 500-233041-12

Date Collected: 04/28/23 10:50

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.7

Method: SW846 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	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
2,4-Dichlorophenol	<0.38		0.38	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
2,4-Dimethylphenol	<0.38		0.38	0.086	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
2,4-Dinitrophenol	<0.77		0.77	0.22	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
2-Methylnaphthalene	<0.077		0.077	0.0077	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
2-Nitroaniline	<0.19		0.19	0.021	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.22	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
4-Chloroaniline	<0.77		0.77	0.40	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
4-Nitrophenol	<0.77		0.77	0.14	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Acenaphthene	<0.038		0.038	0.0078	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Acenaphthylene	<0.038		0.038	0.0065	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Anthracene	<0.038		0.038	0.0078	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Benzo[a]pyrene	<0.038		0.038	0.037	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Benzo[g,h,i]perylene	<0.038		0.038	0.0083	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Benzo[k]fluoranthene	<0.038		0.038	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Dibenzofuran	<0.19		0.19	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Diethyl phthalate	<0.19		0.19	0.018	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Dimethyl phthalate	<0.19		0.19	0.0083	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Fluoranthene	<0.038		0.038	0.0089	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Hexachlorobenzene	<0.077		0.077	0.0073	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Hexachlorobutadiene	<0.19		0.19	0.022	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Hexachlorocyclopentadiene	<0.77		0.77	0.41	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☼	05/10/23 07:54	05/11/23 16:58	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B175-2

Lab Sample ID: 500-233041-12

Date Collected: 04/28/23 10:50

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.7

Method: SW846 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	0.037	mg/Kg	✳	05/10/23 07:54	05/11/23 16:58	1
Isophorone	<0.19		0.19	0.020	mg/Kg	✳	05/10/23 07:54	05/11/23 16:58	1
Naphthalene	<0.038		0.038	0.0069	mg/Kg	✳	05/10/23 07:54	05/11/23 16:58	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	✳	05/10/23 07:54	05/11/23 16:58	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.0076	mg/Kg	✳	05/10/23 07:54	05/11/23 16:58	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	✳	05/10/23 07:54	05/11/23 16:58	1
Pentachlorophenol	<0.77		0.77	0.096	mg/Kg	✳	05/10/23 07:54	05/11/23 16:58	1
Phenanthrene	<0.038		0.038	0.0083	mg/Kg	✳	05/10/23 07:54	05/11/23 16:58	1
Phenol	<0.19		0.19	0.017	mg/Kg	✳	05/10/23 07:54	05/11/23 16:58	1
Pyrene	<0.038		0.038	0.010	mg/Kg	✳	05/10/23 07:54	05/11/23 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		31 - 166				05/10/23 07:54	05/11/23 16:58	1
Phenol-d5	48		30 - 153				05/10/23 07:54	05/11/23 16:58	1
Nitrobenzene-d5 (Surr)	50		37 - 147				05/10/23 07:54	05/11/23 16:58	1
2-Fluorobiphenyl	62		43 - 145				05/10/23 07:54	05/11/23 16:58	1
2,4,6-Tribromophenol	67		31 - 143				05/10/23 07:54	05/11/23 16:58	1
Terphenyl-d14 (Surr)	68		42 - 157				05/10/23 07:54	05/11/23 16:58	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.2	0.23	mg/Kg	✳	05/02/23 15:49	05/12/23 02:12	1
Arsenic	7.3		0.58	0.20	mg/Kg	✳	05/02/23 15:49	05/12/23 02:12	1
Barium	76	B	0.58	0.066	mg/Kg	✳	05/02/23 15:49	05/12/23 02:12	1
Beryllium	0.66		0.47	0.11	mg/Kg	✳	05/02/23 15:49	05/12/23 22:51	2
Boron	14		5.8	0.54	mg/Kg	✳	05/02/23 15:49	05/12/23 22:51	2
Cadmium	0.075	J B	0.12	0.021	mg/Kg	✳	05/02/23 15:49	05/12/23 02:12	1
Calcium	59000	B	23	3.9	mg/Kg	✳	05/02/23 15:49	05/12/23 22:51	2
Chromium	16		0.58	0.29	mg/Kg	✳	05/02/23 15:49	05/12/23 02:12	1
Cobalt	15		0.29	0.076	mg/Kg	✳	05/02/23 15:49	05/12/23 02:12	1
Copper	21		0.58	0.16	mg/Kg	✳	05/02/23 15:49	05/12/23 02:12	1
Iron	21000	B	23	12	mg/Kg	✳	05/02/23 15:49	05/12/23 22:51	2
Lead	13		0.29	0.13	mg/Kg	✳	05/02/23 15:49	05/12/23 02:12	1
Magnesium	27000	B	12	5.8	mg/Kg	✳	05/02/23 15:49	05/12/23 22:51	2
Manganese	540	B	1.2	0.17	mg/Kg	✳	05/02/23 15:49	05/12/23 22:51	2
Nickel	35		0.58	0.17	mg/Kg	✳	05/02/23 15:49	05/12/23 02:12	1
Potassium	2300		29	10	mg/Kg	✳	05/02/23 15:49	05/12/23 02:12	1
Selenium	<1.2		1.2	0.68	mg/Kg	✳	05/02/23 15:49	05/12/23 22:51	2
Silver	<0.29		0.29	0.075	mg/Kg	✳	05/02/23 15:49	05/12/23 02:12	1
Sodium	300		58	8.6	mg/Kg	✳	05/02/23 15:49	05/12/23 02:12	1
Thallium	<0.58		0.58	0.29	mg/Kg	✳	05/02/23 15:49	05/12/23 02:12	1
Vanadium	21	B	0.29	0.069	mg/Kg	✳	05/02/23 15:49	05/12/23 02:12	1
Zinc	60		1.2	0.51	mg/Kg	✳	05/02/23 15:49	05/12/23 02:12	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:28	05/17/23 16:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:28	05/17/23 16:19	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:19	1
Iron	0.33	J	0.40	0.20	mg/L		05/04/23 17:28	05/17/23 16:19	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B175-2

Lab Sample ID: 500-233041-12

Date Collected: 04/28/23 10:50

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.7

Method: SW846 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		05/04/23 17:28	05/17/23 16:19	1
Manganese	0.92		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:19	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:19	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.090		0.050	0.010	mg/L		05/03/23 17:48	05/16/23 21:55	1
Barium	0.58		0.50	0.050	mg/L		05/03/23 17:48	05/16/23 21:55	1
Beryllium	0.0079		0.0040	0.0040	mg/L		05/03/23 17:48	05/16/23 21:55	1
Boron	0.16		0.10	0.050	mg/L		05/03/23 17:48	05/16/23 21:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/16/23 21:55	1
Calcium	71		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 21:55	1
Chromium	0.15		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:55	1
Cobalt	0.059		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:55	1
Iron	180		0.40	0.20	mg/L		05/03/23 17:48	05/16/23 21:55	1
Lead	0.080		0.0075	0.0075	mg/L		05/03/23 17:48	05/16/23 21:55	1
Manganese	0.84		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:55	1
Nickel	0.22		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:55	1
Potassium	28		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 21:55	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/16/23 21:55	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 21:55	1
Zinc	0.52		0.50	0.020	mg/L		05/03/23 17:48	05/16/23 21:55	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:28	05/08/23 17:13	1

Method: SW846 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		05/03/23 17:48	05/05/23 00:16	1
Thallium	0.0032		0.0020	0.0020	mg/L		05/03/23 17:48	05/05/23 00:16	1

Method: SW846 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		05/11/23 11:40	05/12/23 11:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0098	mg/Kg	✱	05/11/23 16:00	05/12/23 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26	0.13	mg/Kg	✱	05/04/23 08:24	05/04/23 10:17	1
pH (SW846 9045D)	8.2		0.2	0.2	SU			05/04/23 18:09	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B175-3

Lab Sample ID: 500-233041-13

Date Collected: 04/28/23 11:00

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 81.2

Method: SW846 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	✱	04/29/23 13:30	05/03/23 13:24	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Acetone	<0.019		0.019	0.0082	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Toluene	0.00076	J	0.0019	0.00047	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	✱	04/29/23 13:30	05/03/23 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	04/29/23 13:30	05/03/23 13:24	1
4-Bromofluorobenzene (Surr)	105		75 - 131	04/29/23 13:30	05/03/23 13:24	1
Dibromofluoromethane	124		75 - 126	04/29/23 13:30	05/03/23 13:24	1
Toluene-d8 (Surr)	110		75 - 124	04/29/23 13:30	05/03/23 13:24	1

Method: SW846 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	0.028	mg/Kg	✱	05/10/23 07:54	05/11/23 17:23	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	✱	05/10/23 07:54	05/11/23 17:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	✱	05/10/23 07:54	05/11/23 17:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	✱	05/10/23 07:54	05/11/23 17:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.029	mg/Kg	✱	05/10/23 07:54	05/11/23 17:23	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B175-3

Lab Sample ID: 500-233041-13

Date Collected: 04/28/23 11:00

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 81.2

Method: SW846 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	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
2,4,6-Trichlorophenol	<0.40		0.40	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
2,4-Dichlorophenol	<0.40		0.40	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
2,4-Dimethylphenol	<0.40		0.40	0.089	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
2,4-Dinitrophenol	<0.80		0.80	0.23	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.023	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
2-Methylnaphthalene	<0.080		0.080	0.0080	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
2-Nitrophenol	<0.40		0.40	0.027	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
3-Nitroaniline	<0.40		0.40	0.018	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.22	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
4-Chloro-3-methylphenol	<0.40		0.40	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
4-Chloroaniline	<0.80		0.80	0.42	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
4-Nitroaniline	<0.40		0.40	0.029	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
4-Nitrophenol	<0.80		0.80	0.15	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Acenaphthene	<0.040		0.040	0.0081	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Acenaphthylene	<0.040		0.040	0.0068	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Anthracene	<0.040		0.040	0.0081	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Benzo[a]pyrene	<0.040		0.040	0.038	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Benzo[b]fluoranthene	<0.040		0.040	0.038	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Benzo[g,h,i]perylene	<0.040		0.040	0.0086	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Benzo[k]fluoranthene	<0.040		0.040	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.16	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Carbazole	<0.20		0.20	0.016	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Dibenz(a,h)anthracene	<0.040		0.040	0.040	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Dimethyl phthalate	<0.20		0.20	0.0087	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Di-n-butyl phthalate	<0.20		0.20	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Di-n-octyl phthalate	<0.40		0.40	0.28	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Fluoranthene	<0.040		0.040	0.0093	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Fluorene	<0.040		0.040	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Hexachlorobenzene	<0.080		0.080	0.0076	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Hexachlorocyclopentadiene	<0.80		0.80	0.42	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☼	05/10/23 07:54	05/11/23 17:23	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B175-3

Lab Sample ID: 500-233041-13

Date Collected: 04/28/23 11:00

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 81.2

Method: SW846 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	0.039	mg/Kg	✳	05/10/23 07:54	05/11/23 17:23	1
Isophorone	<0.20		0.20	0.021	mg/Kg	✳	05/10/23 07:54	05/11/23 17:23	1
Naphthalene	<0.040		0.040	0.0072	mg/Kg	✳	05/10/23 07:54	05/11/23 17:23	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	✳	05/10/23 07:54	05/11/23 17:23	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.0079	mg/Kg	✳	05/10/23 07:54	05/11/23 17:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.024	mg/Kg	✳	05/10/23 07:54	05/11/23 17:23	1
Pentachlorophenol	<0.80		0.80	0.10	mg/Kg	✳	05/10/23 07:54	05/11/23 17:23	1
Phenanthrene	<0.040		0.040	0.0087	mg/Kg	✳	05/10/23 07:54	05/11/23 17:23	1
Phenol	<0.20		0.20	0.017	mg/Kg	✳	05/10/23 07:54	05/11/23 17:23	1
Pyrene	<0.040		0.040	0.011	mg/Kg	✳	05/10/23 07:54	05/11/23 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	42		31 - 166				05/10/23 07:54	05/11/23 17:23	1
Phenol-d5	47		30 - 153				05/10/23 07:54	05/11/23 17:23	1
Nitrobenzene-d5 (Surr)	48		37 - 147				05/10/23 07:54	05/11/23 17:23	1
2-Fluorobiphenyl	58		43 - 145				05/10/23 07:54	05/11/23 17:23	1
2,4,6-Tribromophenol	62		31 - 143				05/10/23 07:54	05/11/23 17:23	1
Terphenyl-d14 (Surr)	62		42 - 157				05/10/23 07:54	05/11/23 17:23	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.2	0.23	mg/Kg	✳	05/02/23 15:49	05/12/23 02:15	1
Arsenic	8.0		0.60	0.20	mg/Kg	✳	05/02/23 15:49	05/12/23 02:15	1
Barium	51	B	0.60	0.068	mg/Kg	✳	05/02/23 15:49	05/12/23 02:15	1
Beryllium	0.78		0.48	0.11	mg/Kg	✳	05/02/23 15:49	05/12/23 23:00	2
Boron	17		6.0	0.55	mg/Kg	✳	05/02/23 15:49	05/12/23 23:00	2
Cadmium	<0.12		0.12	0.021	mg/Kg	✳	05/02/23 15:49	05/12/23 02:15	1
Calcium	48000	B	24	4.0	mg/Kg	✳	05/02/23 15:49	05/12/23 23:00	2
Chromium	20		0.60	0.29	mg/Kg	✳	05/02/23 15:49	05/12/23 02:15	1
Cobalt	14		0.30	0.078	mg/Kg	✳	05/02/23 15:49	05/12/23 02:15	1
Copper	22		0.60	0.17	mg/Kg	✳	05/02/23 15:49	05/12/23 02:15	1
Iron	24000	B	24	12	mg/Kg	✳	05/02/23 15:49	05/12/23 23:00	2
Lead	15		0.30	0.14	mg/Kg	✳	05/02/23 15:49	05/12/23 02:15	1
Magnesium	23000	B	12	5.9	mg/Kg	✳	05/02/23 15:49	05/12/23 23:00	2
Manganese	370	B	1.2	0.17	mg/Kg	✳	05/02/23 15:49	05/12/23 23:00	2
Nickel	35		0.60	0.17	mg/Kg	✳	05/02/23 15:49	05/12/23 02:15	1
Potassium	2900		30	11	mg/Kg	✳	05/02/23 15:49	05/12/23 02:15	1
Selenium	<1.2		1.2	0.70	mg/Kg	✳	05/02/23 15:49	05/12/23 23:00	2
Silver	<0.30		0.30	0.077	mg/Kg	✳	05/02/23 15:49	05/12/23 02:15	1
Sodium	330		60	8.8	mg/Kg	✳	05/02/23 15:49	05/12/23 02:15	1
Thallium	<0.60		0.60	0.30	mg/Kg	✳	05/02/23 15:49	05/12/23 02:15	1
Vanadium	23	B	0.30	0.070	mg/Kg	✳	05/02/23 15:49	05/12/23 02:15	1
Zinc	63		1.2	0.52	mg/Kg	✳	05/02/23 15:49	05/12/23 02:15	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:28	05/17/23 16:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:28	05/17/23 16:22	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:22	1
Iron	1.8		0.40	0.20	mg/L		05/04/23 17:28	05/17/23 16:22	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B175-3

Lab Sample ID: 500-233041-13

Date Collected: 04/28/23 11:00

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 81.2

Method: SW846 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		05/04/23 17:28	05/17/23 16:22	1
Manganese	0.93		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:22	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:22	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.10	0.020	mg/L		05/03/23 17:48	05/16/23 21:58	1
Barium	0.55	J	1.0	0.10	mg/L		05/03/23 17:48	05/16/23 21:58	1
Beryllium	0.0092		0.0080	0.0080	mg/L		05/03/23 17:48	05/16/23 21:58	1
Boron	0.25		0.20	0.10	mg/L		05/03/23 17:48	05/16/23 21:58	1
Cadmium	<0.010		0.010	0.0040	mg/L		05/03/23 17:48	05/16/23 21:58	1
Calcium	62		5.0	1.0	mg/L		05/03/23 17:48	05/16/23 21:58	1
Chromium	0.18		0.050	0.020	mg/L		05/03/23 17:48	05/16/23 21:58	1
Cobalt	0.071		0.050	0.020	mg/L		05/03/23 17:48	05/16/23 21:58	1
Iron	190		0.80	0.40	mg/L		05/03/23 17:48	05/16/23 21:58	1
Lead	0.076		0.015	0.015	mg/L		05/03/23 17:48	05/16/23 21:58	1
Manganese	0.94		0.050	0.020	mg/L		05/03/23 17:48	05/16/23 21:58	1
Nickel	0.25		0.050	0.020	mg/L		05/03/23 17:48	05/16/23 21:58	1
Potassium	42		5.0	1.0	mg/L		05/03/23 17:48	05/16/23 21:58	1
Selenium	<0.10		0.10	0.040	mg/L		05/03/23 17:48	05/16/23 21:58	1
Silver	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/16/23 21:58	1
Zinc	0.49	J	1.0	0.040	mg/L		05/03/23 17:48	05/16/23 21:58	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		05/04/23 17:28	05/08/23 17:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:28	05/08/23 17:19	1

Method: SW846 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.012		0.012	0.012	mg/L		05/03/23 17:48	05/05/23 00:18	1
Thallium	0.0042		0.0040	0.0040	mg/L		05/03/23 17:48	05/05/23 00:18	1

Method: SW846 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		05/11/23 11:40	05/12/23 11:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0097	mg/Kg	☼	05/11/23 16:00	05/12/23 07:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.29		0.29	0.15	mg/Kg	☼	05/04/23 08:25	05/04/23 10:19	1
pH (SW846 9045D)	8.1		0.2	0.2	SU			05/04/23 18:11	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B174

Lab Sample ID: 500-233041-14

Date Collected: 04/28/23 11:10

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.2

Method: SW846 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	0.00057	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
2-Butanone (MEK)	0.0025	J	0.0043	0.0019	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Acetone	0.027		0.017	0.0074	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Toluene	0.00049	J	0.0017	0.00043	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	✳	04/29/23 13:30	05/03/23 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	04/29/23 13:30	05/03/23 13:48	1
4-Bromofluorobenzene (Surr)	99		75 - 131	04/29/23 13:30	05/03/23 13:48	1
Dibromofluoromethane	122		75 - 126	04/29/23 13:30	05/03/23 13:48	1
Toluene-d8 (Surr)	111		75 - 124	04/29/23 13:30	05/03/23 13:48	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.026	mg/Kg	✳	05/10/23 07:54	05/11/23 17:48	1
1,2-Dichlorobenzene	<0.18		0.18	0.015	mg/Kg	✳	05/10/23 07:54	05/11/23 17:48	1
1,3-Dichlorobenzene	<0.18		0.18	0.017	mg/Kg	✳	05/10/23 07:54	05/11/23 17:48	1
1,4-Dichlorobenzene	<0.18		0.18	0.017	mg/Kg	✳	05/10/23 07:54	05/11/23 17:48	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.026	mg/Kg	✳	05/10/23 07:54	05/11/23 17:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B174

Lab Sample ID: 500-233041-14

Date Collected: 04/28/23 11:10

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
2,4,6-Trichlorophenol	<0.36		0.36	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
2,4-Dichlorophenol	<0.36		0.36	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
2,4-Dimethylphenol	<0.36		0.36	0.082	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
2,4-Dinitrophenol	<0.74		0.74	0.21	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
2,4-Dinitrotoluene	<0.18		0.18	0.021	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
2,6-Dinitrotoluene	<0.18		0.18	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
2-Chloronaphthalene	<0.18		0.18	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
2-Chlorophenol	<0.18		0.18	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
2-Methylnaphthalene	<0.074		0.074	0.0074	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
2-Methylphenol	<0.18		0.18	0.019	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
2-Nitroaniline	<0.18		0.18	0.020	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
2-Nitrophenol	<0.36		0.36	0.025	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
3 & 4 Methylphenol	<0.18		0.18	0.027	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
3-Nitroaniline	<0.36		0.36	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.21	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.025	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
4-Chloro-3-methylphenol	<0.36		0.36	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
4-Chloroaniline	<0.74		0.74	0.38	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
4-Nitroaniline	<0.36		0.36	0.027	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
4-Nitrophenol	<0.74		0.74	0.14	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Acenaphthene	<0.036		0.036	0.0075	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Acenaphthylene	<0.036		0.036	0.0062	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Anthracene	<0.036		0.036	0.0075	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Benzo[a]anthracene	0.022 J		0.036	0.0078	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Benzo[a]pyrene	<0.036		0.036	0.035	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Benzo[b]fluoranthene	<0.036		0.036	0.035	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Benzo[g,h,i]perylene	<0.036		0.036	0.0079	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Benzo[k]fluoranthene	<0.036		0.036	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.14	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Butyl benzyl phthalate	<0.18		0.18	0.018	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Carbazole	<0.18		0.18	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Chrysene	0.018 J		0.036	0.0097	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Dibenz(a,h)anthracene	<0.036		0.036	0.036	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Dibenzofuran	<0.18		0.18	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Diethyl phthalate	<0.18		0.18	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Dimethyl phthalate	<0.18		0.18	0.0080	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Di-n-butyl phthalate	<0.18		0.18	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Di-n-octyl phthalate	<0.36		0.36	0.26	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Fluoranthene	0.028 J		0.036	0.0085	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Fluorene	<0.036		0.036	0.011	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Hexachlorobenzene	<0.074		0.074	0.0070	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Hexachlorobutadiene	<0.18		0.18	0.021	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Hexachlorocyclopentadiene	<0.74		0.74	0.39	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1
Hexachloroethane	<0.18		0.18	0.018	mg/Kg	☼	05/10/23 07:54	05/11/23 17:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B174

Lab Sample ID: 500-233041-14

Date Collected: 04/28/23 11:10

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.036	mg/Kg	✳	05/10/23 07:54	05/11/23 17:48	1
Isophorone	<0.18		0.18	0.019	mg/Kg	✳	05/10/23 07:54	05/11/23 17:48	1
Naphthalene	<0.036		0.036	0.0066	mg/Kg	✳	05/10/23 07:54	05/11/23 17:48	1
Nitrobenzene	<0.036		0.036	0.012	mg/Kg	✳	05/10/23 07:54	05/11/23 17:48	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.0072	mg/Kg	✳	05/10/23 07:54	05/11/23 17:48	1
N-Nitrosodiphenylamine	<0.18		0.18	0.022	mg/Kg	✳	05/10/23 07:54	05/11/23 17:48	1
Pentachlorophenol	<0.74		0.74	0.092	mg/Kg	✳	05/10/23 07:54	05/11/23 17:48	1
Phenanthrene	<0.036		0.036	0.0080	mg/Kg	✳	05/10/23 07:54	05/11/23 17:48	1
Phenol	<0.18		0.18	0.016	mg/Kg	✳	05/10/23 07:54	05/11/23 17:48	1
Pyrene	0.026	J	0.036	0.010	mg/Kg	✳	05/10/23 07:54	05/11/23 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	40		31 - 166	05/10/23 07:54	05/11/23 17:48	1
Phenol-d5	43		30 - 153	05/10/23 07:54	05/11/23 17:48	1
Nitrobenzene-d5 (Surr)	45		37 - 147	05/10/23 07:54	05/11/23 17:48	1
2-Fluorobiphenyl	57		43 - 145	05/10/23 07:54	05/11/23 17:48	1
2,4,6-Tribromophenol	60		31 - 143	05/10/23 07:54	05/11/23 17:48	1
Terphenyl-d14 (Surr)	64		42 - 157	05/10/23 07:54	05/11/23 17:48	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.2	0.23	mg/Kg	✳	05/02/23 15:49	05/12/23 02:19	1
Arsenic	9.2		0.58	0.20	mg/Kg	✳	05/02/23 15:49	05/12/23 02:19	1
Barium	49	B	0.58	0.067	mg/Kg	✳	05/02/23 15:49	05/12/23 02:19	1
Beryllium	0.54		0.47	0.11	mg/Kg	✳	05/02/23 15:49	05/12/23 23:04	2
Boron	11		5.8	0.54	mg/Kg	✳	05/02/23 15:49	05/12/23 23:04	2
Cadmium	0.084	J B	0.12	0.021	mg/Kg	✳	05/02/23 15:49	05/12/23 02:19	1
Calcium	61000	B	23	4.0	mg/Kg	✳	05/02/23 15:49	05/12/23 23:04	2
Chromium	14		0.58	0.29	mg/Kg	✳	05/02/23 15:49	05/12/23 02:19	1
Cobalt	10		0.29	0.076	mg/Kg	✳	05/02/23 15:49	05/12/23 02:19	1
Copper	25		0.58	0.16	mg/Kg	✳	05/02/23 15:49	05/12/23 02:19	1
Iron	21000	B	23	12	mg/Kg	✳	05/02/23 15:49	05/12/23 23:04	2
Lead	14		0.29	0.13	mg/Kg	✳	05/02/23 15:49	05/12/23 02:19	1
Magnesium	31000	B	12	5.8	mg/Kg	✳	05/02/23 15:49	05/12/23 23:04	2
Manganese	440	B	1.2	0.17	mg/Kg	✳	05/02/23 15:49	05/12/23 23:04	2
Nickel	28		0.58	0.17	mg/Kg	✳	05/02/23 15:49	05/12/23 02:19	1
Potassium	1700		29	10	mg/Kg	✳	05/02/23 15:49	05/12/23 02:19	1
Selenium	<1.2		1.2	0.69	mg/Kg	✳	05/02/23 15:49	05/12/23 23:04	2
Silver	<0.29		0.29	0.075	mg/Kg	✳	05/02/23 15:49	05/12/23 02:19	1
Sodium	570		58	8.6	mg/Kg	✳	05/02/23 15:49	05/12/23 02:19	1
Thallium	0.41	J	0.58	0.29	mg/Kg	✳	05/02/23 15:49	05/12/23 02:19	1
Vanadium	18	B	0.29	0.069	mg/Kg	✳	05/02/23 15:49	05/12/23 02:19	1
Zinc	68		1.2	0.51	mg/Kg	✳	05/02/23 15:49	05/12/23 02:19	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:28	05/17/23 16:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:28	05/17/23 16:26	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:26	1
Iron	<0.40		0.40	0.20	mg/L		05/04/23 17:28	05/17/23 16:26	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B174

Lab Sample ID: 500-233041-14

Date Collected: 04/28/23 11:10

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.2

Method: SW846 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		05/04/23 17:28	05/17/23 16:26	1
Manganese	1.3		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:26	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:26	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.097		0.050	0.010	mg/L		05/03/23 17:48	05/16/23 22:01	1
Barium	0.54		0.50	0.050	mg/L		05/03/23 17:48	05/16/23 22:01	1
Beryllium	0.0070		0.0040	0.0040	mg/L		05/03/23 17:48	05/16/23 22:01	1
Boron	0.17		0.10	0.050	mg/L		05/03/23 17:48	05/16/23 22:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/16/23 22:01	1
Calcium	49		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 22:01	1
Chromium	0.13		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:01	1
Cobalt	0.056		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:01	1
Iron	170		0.40	0.20	mg/L		05/03/23 17:48	05/16/23 22:01	1
Lead	0.068		0.0075	0.0075	mg/L		05/03/23 17:48	05/16/23 22:01	1
Manganese	1.0		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:01	1
Nickel	0.20		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:01	1
Potassium	26		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 22:01	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/16/23 22:01	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:01	1
Zinc	0.58		0.50	0.020	mg/L		05/03/23 17:48	05/16/23 22:01	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:28	05/08/23 17:21	1

Method: SW846 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		05/03/23 17:48	05/05/23 00:20	1
Thallium	0.0054		0.0020	0.0020	mg/L		05/03/23 17:48	05/05/23 00:20	1

Method: SW846 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		05/11/23 11:40	05/12/23 11:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0095	mg/Kg	✱	05/11/23 16:00	05/12/23 07:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	✱	05/04/23 08:26	05/04/23 10:20	1
pH (SW846 9045D)	8.3		0.2	0.2	SU			05/04/23 18:14	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B171

Lab Sample ID: 500-233041-17

Date Collected: 04/28/23 11:40

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 84.0

Method: SW846 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	✳	04/29/23 13:30	05/03/23 15:01	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Acetone	<0.018		0.018	0.0080	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Toluene	0.0019		0.0018	0.00046	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	✳	04/29/23 13:30	05/03/23 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	04/29/23 13:30	05/03/23 15:01	1
4-Bromofluorobenzene (Surr)	103		75 - 131	04/29/23 13:30	05/03/23 15:01	1
Dibromofluoromethane	126		75 - 126	04/29/23 13:30	05/03/23 15:01	1
Toluene-d8 (Surr)	110		75 - 124	04/29/23 13:30	05/03/23 15:01	1

Method: SW846 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	0.027	mg/Kg	✳	05/10/23 07:54	05/11/23 18:37	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	✳	05/10/23 07:54	05/11/23 18:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	✳	05/10/23 07:54	05/11/23 18:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	✳	05/10/23 07:54	05/11/23 18:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	✳	05/10/23 07:54	05/11/23 18:37	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B171

Lab Sample ID: 500-233041-17

Date Collected: 04/28/23 11:40

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 84.0

Method: SW846 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	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
2,4-Dinitrophenol	<0.77		0.77	0.22	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
2-Methylnaphthalene	<0.077		0.077	0.0076	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.21	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
4-Chloroaniline	<0.77		0.77	0.40	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
4-Nitrophenol	<0.77		0.77	0.14	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Acenaphthene	<0.038		0.038	0.0077	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Acenaphthylene	<0.038		0.038	0.0065	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Anthracene	<0.038		0.038	0.0078	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Benzo[a]anthracene	0.018 J		0.038	0.0081	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Benzo[a]pyrene	<0.038		0.038	0.037	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Benzo[g,h,i]perylene	<0.038		0.038	0.0082	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Benzo[k]fluoranthene	<0.038		0.038	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Chrysene	0.015 J		0.038	0.010	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Dibenzofuran	<0.19		0.19	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Dimethyl phthalate	<0.19		0.19	0.0083	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Fluoranthene	0.021 J		0.038	0.0088	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Hexachlorobenzene	<0.077		0.077	0.0073	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Hexachlorocyclopentadiene	<0.77		0.77	0.40	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☼	05/10/23 07:54	05/11/23 18:37	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B171

Lab Sample ID: 500-233041-17

Date Collected: 04/28/23 11:40

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 84.0

Method: SW846 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	0.037	mg/Kg	☆	05/10/23 07:54	05/11/23 18:37	1
Isophorone	<0.19		0.19	0.020	mg/Kg	☆	05/10/23 07:54	05/11/23 18:37	1
Naphthalene	<0.038		0.038	0.0069	mg/Kg	☆	05/10/23 07:54	05/11/23 18:37	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☆	05/10/23 07:54	05/11/23 18:37	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.0075	mg/Kg	☆	05/10/23 07:54	05/11/23 18:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	☆	05/10/23 07:54	05/11/23 18:37	1
Pentachlorophenol	<0.77		0.77	0.095	mg/Kg	☆	05/10/23 07:54	05/11/23 18:37	1
Phenanthrene	<0.038		0.038	0.0083	mg/Kg	☆	05/10/23 07:54	05/11/23 18:37	1
Phenol	<0.19		0.19	0.017	mg/Kg	☆	05/10/23 07:54	05/11/23 18:37	1
Pyrene	0.017	J	0.038	0.010	mg/Kg	☆	05/10/23 07:54	05/11/23 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		31 - 166	05/10/23 07:54	05/11/23 18:37	1
Phenol-d5	51		30 - 153	05/10/23 07:54	05/11/23 18:37	1
Nitrobenzene-d5 (Surr)	54		37 - 147	05/10/23 07:54	05/11/23 18:37	1
2-Fluorobiphenyl	67		43 - 145	05/10/23 07:54	05/11/23 18:37	1
2,4,6-Tribromophenol	68		31 - 143	05/10/23 07:54	05/11/23 18:37	1
Terphenyl-d14 (Surr)	73		42 - 157	05/10/23 07:54	05/11/23 18:37	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.2	0.23	mg/Kg	☆	05/02/23 15:49	05/12/23 02:34	1
Arsenic	7.4		0.59	0.20	mg/Kg	☆	05/02/23 15:49	05/12/23 02:34	1
Barium	110	B	0.59	0.067	mg/Kg	☆	05/02/23 15:49	05/12/23 02:34	1
Beryllium	0.68		0.47	0.11	mg/Kg	☆	05/02/23 15:49	05/12/23 23:13	2
Boron	12		5.9	0.55	mg/Kg	☆	05/02/23 15:49	05/12/23 23:13	2
Cadmium	<0.12		0.12	0.021	mg/Kg	☆	05/02/23 15:49	05/12/23 02:34	1
Calcium	45000	B	23	4.0	mg/Kg	☆	05/02/23 15:49	05/12/23 23:13	2
Chromium	18		0.59	0.29	mg/Kg	☆	05/02/23 15:49	05/12/23 02:34	1
Cobalt	7.3		0.29	0.077	mg/Kg	☆	05/02/23 15:49	05/12/23 02:34	1
Copper	21		0.59	0.16	mg/Kg	☆	05/02/23 15:49	05/12/23 02:34	1
Iron	23000	B	23	12	mg/Kg	☆	05/02/23 15:49	05/12/23 23:13	2
Lead	12		0.29	0.14	mg/Kg	☆	05/02/23 15:49	05/12/23 02:34	1
Magnesium	26000	B	12	5.8	mg/Kg	☆	05/02/23 15:49	05/12/23 23:13	2
Manganese	230	B	1.2	0.17	mg/Kg	☆	05/02/23 15:49	05/12/23 23:13	2
Nickel	24		0.59	0.17	mg/Kg	☆	05/02/23 15:49	05/12/23 02:34	1
Potassium	2100		29	10	mg/Kg	☆	05/02/23 15:49	05/12/23 02:34	1
Selenium	0.71	J	1.2	0.69	mg/Kg	☆	05/02/23 15:49	05/12/23 23:13	2
Silver	<0.29		0.29	0.076	mg/Kg	☆	05/02/23 15:49	05/12/23 02:34	1
Sodium	960		59	8.7	mg/Kg	☆	05/02/23 15:49	05/12/23 02:34	1
Thallium	0.36	J	0.59	0.29	mg/Kg	☆	05/02/23 15:49	05/12/23 02:34	1
Vanadium	23	B	0.29	0.069	mg/Kg	☆	05/02/23 15:49	05/12/23 02:34	1
Zinc	74		1.2	0.52	mg/Kg	☆	05/02/23 15:49	05/12/23 02:34	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:28	05/17/23 17:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:28	05/17/23 17:21	1
Iron	<0.40		0.40	0.20	mg/L		05/04/23 17:28	05/17/23 17:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		05/04/23 17:28	05/17/23 17:21	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B171

Lab Sample ID: 500-233041-17

Date Collected: 04/28/23 11:40

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 84.0

Method: SW846 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		05/04/23 17:28	05/17/23 17:21	1
Nickel	0.028		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 17:21	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.063		0.050	0.010	mg/L		05/03/23 17:48	05/16/23 22:19	1
Barium	0.47	J	0.50	0.050	mg/L		05/03/23 17:48	05/16/23 22:19	1
Beryllium	0.0051		0.0040	0.0040	mg/L		05/03/23 17:48	05/16/23 22:19	1
Boron	0.13		0.10	0.050	mg/L		05/03/23 17:48	05/16/23 22:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/16/23 22:19	1
Calcium	32		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 22:19	1
Chromium	0.099		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:19	1
Cobalt	0.029		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:19	1
Iron	120		0.40	0.20	mg/L		05/03/23 17:48	05/16/23 22:19	1
Lead	0.042		0.0075	0.0075	mg/L		05/03/23 17:48	05/16/23 22:19	1
Manganese	0.39		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:19	1
Nickel	0.11		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:19	1
Potassium	22		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 22:19	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/16/23 22:19	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:19	1
Zinc	0.33	J	0.50	0.020	mg/L		05/03/23 17:48	05/16/23 22:19	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:28	05/08/23 17:52	1

Method: SW846 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		05/03/23 17:48	05/05/23 00:26	1
Thallium	0.0033		0.0020	0.0020	mg/L		05/03/23 17:48	05/05/23 00:26	1

Method: SW846 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		05/11/23 11:40	05/12/23 11:24	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.010	mg/Kg	☆	05/11/23 16:00	05/12/23 08:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.29		0.29	0.14	mg/Kg	☆	05/05/23 08:09	05/05/23 10:20	1
pH (SW846 9045D)	7.7		0.2	0.2	SU			05/04/23 18:21	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B170

Lab Sample ID: 500-233041-18

Date Collected: 04/28/23 11:50

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.6

Method: SW846 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	✳	04/29/23 13:30	05/04/23 13:04	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Acetone	<0.018		0.018	0.0079	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Toluene	0.0011	J	0.0018	0.00046	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	✳	04/29/23 13:30	05/04/23 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	04/29/23 13:30	05/04/23 13:04	1
4-Bromofluorobenzene (Surr)	96		75 - 131	04/29/23 13:30	05/04/23 13:04	1
Dibromofluoromethane	102		75 - 126	04/29/23 13:30	05/04/23 13:04	1
Toluene-d8 (Surr)	88		75 - 124	04/29/23 13:30	05/04/23 13:04	1

Method: SW846 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	0.027	mg/Kg	✳	05/10/23 07:54	05/11/23 19:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	✳	05/10/23 07:54	05/11/23 19:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	✳	05/10/23 07:54	05/11/23 19:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	✳	05/10/23 07:54	05/11/23 19:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	✳	05/10/23 07:54	05/11/23 19:01	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B170

Lab Sample ID: 500-233041-18

Date Collected: 04/28/23 11:50

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.6

Method: SW846 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	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
2,4-Dinitrophenol	<0.76		0.76	0.22	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
2-Methylnaphthalene	<0.076		0.076	0.0076	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.21	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
4-Chloroaniline	<0.76		0.76	0.40	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
4-Nitrophenol	<0.76		0.76	0.14	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Acenaphthene	<0.038		0.038	0.0077	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Acenaphthylene	<0.038		0.038	0.0064	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Anthracene	<0.038		0.038	0.0077	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Benzo[a]pyrene	<0.038		0.038	0.036	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Benzo[g,h,i]perylene	0.016	J	0.038	0.0082	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Benzo[k]fluoranthene	<0.038		0.038	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Dimethyl phthalate	<0.19		0.19	0.0082	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Di-n-octyl phthalate	<0.38		0.38	0.26	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Fluoranthene	0.021	J	0.038	0.0088	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Hexachlorobenzene	<0.076		0.076	0.0072	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Hexachlorocyclopentadiene	<0.76		0.76	0.40	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☼	05/10/23 07:54	05/11/23 19:01	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B170

Lab Sample ID: 500-233041-18

Date Collected: 04/28/23 11:50

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.6

Method: SW846 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	0.037	mg/Kg	✳	05/10/23 07:54	05/11/23 19:01	1
Isophorone	<0.19		0.19	0.019	mg/Kg	✳	05/10/23 07:54	05/11/23 19:01	1
Naphthalene	<0.038		0.038	0.0068	mg/Kg	✳	05/10/23 07:54	05/11/23 19:01	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	✳	05/10/23 07:54	05/11/23 19:01	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.0075	mg/Kg	✳	05/10/23 07:54	05/11/23 19:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	✳	05/10/23 07:54	05/11/23 19:01	1
Pentachlorophenol	<0.76		0.76	0.095	mg/Kg	✳	05/10/23 07:54	05/11/23 19:01	1
Phenanthrene	<0.038		0.038	0.0082	mg/Kg	✳	05/10/23 07:54	05/11/23 19:01	1
Phenol	<0.19		0.19	0.016	mg/Kg	✳	05/10/23 07:54	05/11/23 19:01	1
Pyrene	0.016	J	0.038	0.010	mg/Kg	✳	05/10/23 07:54	05/11/23 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		31 - 166	05/10/23 07:54	05/11/23 19:01	1
Phenol-d5	61		30 - 153	05/10/23 07:54	05/11/23 19:01	1
Nitrobenzene-d5 (Surr)	65		37 - 147	05/10/23 07:54	05/11/23 19:01	1
2-Fluorobiphenyl	80		43 - 145	05/10/23 07:54	05/11/23 19:01	1
2,4,6-Tribromophenol	80		31 - 143	05/10/23 07:54	05/11/23 19:01	1
Terphenyl-d14 (Surr)	88		42 - 157	05/10/23 07:54	05/11/23 19:01	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.1	0.22	mg/Kg	✳	05/02/23 15:49	05/12/23 02:38	1
Arsenic	8.1		0.56	0.19	mg/Kg	✳	05/02/23 15:49	05/12/23 02:38	1
Barium	73	B	0.56	0.064	mg/Kg	✳	05/02/23 15:49	05/12/23 02:38	1
Beryllium	0.63		0.45	0.10	mg/Kg	✳	05/02/23 15:49	05/12/23 23:16	2
Boron	12		5.6	0.52	mg/Kg	✳	05/02/23 15:49	05/12/23 23:16	2
Cadmium	0.090	J B	0.11	0.020	mg/Kg	✳	05/02/23 15:49	05/12/23 02:38	1
Calcium	49000	B	22	3.8	mg/Kg	✳	05/02/23 15:49	05/12/23 23:16	2
Chromium	17		0.56	0.28	mg/Kg	✳	05/02/23 15:49	05/12/23 02:38	1
Cobalt	12		0.28	0.073	mg/Kg	✳	05/02/23 15:49	05/12/23 02:38	1
Copper	22		0.56	0.16	mg/Kg	✳	05/02/23 15:49	05/12/23 02:38	1
Iron	22000	B	22	12	mg/Kg	✳	05/02/23 15:49	05/12/23 23:16	2
Lead	13		0.28	0.13	mg/Kg	✳	05/02/23 15:49	05/12/23 02:38	1
Magnesium	26000	B	11	5.6	mg/Kg	✳	05/02/23 15:49	05/12/23 23:16	2
Manganese	550	B	1.1	0.16	mg/Kg	✳	05/02/23 15:49	05/12/23 23:16	2
Nickel	31		0.56	0.16	mg/Kg	✳	05/02/23 15:49	05/12/23 02:38	1
Potassium	2100		28	9.9	mg/Kg	✳	05/02/23 15:49	05/12/23 02:38	1
Selenium	0.95	J	1.1	0.66	mg/Kg	✳	05/02/23 15:49	05/12/23 23:16	2
Silver	<0.28		0.28	0.072	mg/Kg	✳	05/02/23 15:49	05/12/23 02:38	1
Sodium	1500		56	8.3	mg/Kg	✳	05/02/23 15:49	05/12/23 02:38	1
Thallium	<0.56		0.56	0.28	mg/Kg	✳	05/02/23 15:49	05/12/23 02:38	1
Vanadium	22	B	0.28	0.066	mg/Kg	✳	05/02/23 15:49	05/12/23 02:38	1
Zinc	76		1.1	0.49	mg/Kg	✳	05/02/23 15:49	05/12/23 02:38	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:28	05/17/23 17:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:28	05/17/23 17:25	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 17:25	1
Iron	<0.40		0.40	0.20	mg/L		05/04/23 17:28	05/17/23 17:25	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B170

Lab Sample ID: 500-233041-18

Date Collected: 04/28/23 11:50

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.6

Method: SW846 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		05/04/23 17:28	05/17/23 17:25	1
Manganese	2.9		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 17:25	1
Nickel	0.033		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 17:25	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12		0.050	0.010	mg/L		05/03/23 17:48	05/16/23 22:22	1
Barium	0.77		0.50	0.050	mg/L		05/03/23 17:48	05/16/23 22:22	1
Beryllium	0.0090		0.0040	0.0040	mg/L		05/03/23 17:48	05/16/23 22:22	1
Boron	0.17		0.10	0.050	mg/L		05/03/23 17:48	05/16/23 22:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/16/23 22:22	1
Calcium	51		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 22:22	1
Chromium	0.17		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:22	1
Cobalt	0.058		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:22	1
Iron	220		0.40	0.20	mg/L		05/03/23 17:48	05/16/23 22:22	1
Lead	0.094		0.0075	0.0075	mg/L		05/03/23 17:48	05/16/23 22:22	1
Manganese	0.76		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:22	1
Nickel	0.21		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:22	1
Potassium	31		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 22:22	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/16/23 22:22	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:22	1
Zinc	0.68		0.50	0.020	mg/L		05/03/23 17:48	05/16/23 22:22	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:28	05/08/23 17:54	1

Method: SW846 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		05/03/23 17:48	05/05/23 00:28	1
Thallium	0.0043		0.0020	0.0020	mg/L		05/03/23 17:48	05/05/23 00:28	1

Method: SW846 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		05/11/23 11:40	05/12/23 11:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0097	mg/Kg	✱	05/11/23 16:00	05/12/23 08:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26	0.13	mg/Kg	✱	05/05/23 08:10	05/05/23 10:21	1
pH (SW846 9045D)	8.0		0.2	0.2	SU			05/04/23 18:24	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B170 Dup

Lab Sample ID: 500-233041-19

Date Collected: 04/28/23 12:00

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.9

Method: SW846 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	✱	04/29/23 13:30	05/03/23 15:50	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Acetone	<0.019		0.019	0.0081	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	✱	04/29/23 13:30	05/03/23 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	04/29/23 13:30	05/03/23 15:50	1
4-Bromofluorobenzene (Surr)	101		75 - 131	04/29/23 13:30	05/03/23 15:50	1
Dibromofluoromethane	127	S1+	75 - 126	04/29/23 13:30	05/03/23 15:50	1
Toluene-d8 (Surr)	110		75 - 124	04/29/23 13:30	05/03/23 15:50	1

Method: SW846 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	0.027	mg/Kg	✱	05/10/23 07:54	05/11/23 19:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	✱	05/10/23 07:54	05/11/23 19:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	✱	05/10/23 07:54	05/11/23 19:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	✱	05/10/23 07:54	05/11/23 19:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	✱	05/10/23 07:54	05/11/23 19:26	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B170 Dup

Lab Sample ID: 500-233041-19

Date Collected: 04/28/23 12:00

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.014	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
2,4-Dimethylphenol	<0.37		0.37	0.084	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
2,4-Dinitrophenol	<0.75		0.75	0.22	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
2-Methylnaphthalene	<0.075		0.075	0.0075	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.21	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
4-Chloro-3-methylphenol	<0.37		0.37	0.015	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
4-Chloroaniline	<0.75		0.75	0.39	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
4-Nitroaniline	<0.37		0.37	0.028	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
4-Nitrophenol	<0.75		0.75	0.14	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Acenaphthene	<0.037		0.037	0.0076	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Acenaphthylene	<0.037		0.037	0.0063	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Anthracene	<0.037		0.037	0.0076	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Benzo[b]fluoranthene	<0.037		0.037	0.036	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Benzo[g,h,i]perylene	<0.037		0.037	0.0081	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Carbazole	<0.19		0.19	0.015	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Chrysene	<0.037		0.037	0.0099	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Dimethyl phthalate	<0.19		0.19	0.0081	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Fluoranthene	0.015	J	0.037	0.0087	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Fluorene	<0.037		0.037	0.011	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Hexachlorobenzene	<0.075		0.075	0.0072	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Hexachlorocyclopentadiene	<0.75		0.75	0.40	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	✳	05/10/23 07:54	05/11/23 19:26	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B170 Dup

Lab Sample ID: 500-233041-19

Date Collected: 04/28/23 12:00

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.036	mg/Kg	☆	05/10/23 07:54	05/11/23 19:26	1
Isophorone	<0.19		0.19	0.019	mg/Kg	☆	05/10/23 07:54	05/11/23 19:26	1
Naphthalene	<0.037		0.037	0.0068	mg/Kg	☆	05/10/23 07:54	05/11/23 19:26	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☆	05/10/23 07:54	05/11/23 19:26	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.0074	mg/Kg	☆	05/10/23 07:54	05/11/23 19:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	☆	05/10/23 07:54	05/11/23 19:26	1
Pentachlorophenol	<0.75		0.75	0.093	mg/Kg	☆	05/10/23 07:54	05/11/23 19:26	1
Phenanthrene	<0.037		0.037	0.0081	mg/Kg	☆	05/10/23 07:54	05/11/23 19:26	1
Phenol	<0.19		0.19	0.016	mg/Kg	☆	05/10/23 07:54	05/11/23 19:26	1
Pyrene	0.013	J	0.037	0.010	mg/Kg	☆	05/10/23 07:54	05/11/23 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		31 - 166	05/10/23 07:54	05/11/23 19:26	1
Phenol-d5	64		30 - 153	05/10/23 07:54	05/11/23 19:26	1
Nitrobenzene-d5 (Surr)	69		37 - 147	05/10/23 07:54	05/11/23 19:26	1
2-Fluorobiphenyl	85		43 - 145	05/10/23 07:54	05/11/23 19:26	1
2,4,6-Tribromophenol	88		31 - 143	05/10/23 07:54	05/11/23 19:26	1
Terphenyl-d14 (Surr)	94		42 - 157	05/10/23 07:54	05/11/23 19:26	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.2	0.23	mg/Kg	☆	05/02/23 15:49	05/12/23 02:41	1
Arsenic	9.1		0.58	0.20	mg/Kg	☆	05/02/23 15:49	05/12/23 02:41	1
Barium	38	B	0.58	0.066	mg/Kg	☆	05/02/23 15:49	05/12/23 02:41	1
Beryllium	0.62		0.46	0.11	mg/Kg	☆	05/02/23 15:49	05/12/23 23:19	2
Boron	12		5.8	0.54	mg/Kg	☆	05/02/23 15:49	05/12/23 23:19	2
Cadmium	0.12	B	0.12	0.021	mg/Kg	☆	05/02/23 15:49	05/12/23 02:41	1
Calcium	60000	B	23	3.9	mg/Kg	☆	05/02/23 15:49	05/12/23 23:19	2
Chromium	16		0.58	0.29	mg/Kg	☆	05/02/23 15:49	05/12/23 02:41	1
Cobalt	14		0.29	0.076	mg/Kg	☆	05/02/23 15:49	05/12/23 02:41	1
Copper	25		0.58	0.16	mg/Kg	☆	05/02/23 15:49	05/12/23 02:41	1
Iron	21000	B	23	12	mg/Kg	☆	05/02/23 15:49	05/12/23 23:19	2
Lead	14		0.29	0.13	mg/Kg	☆	05/02/23 15:49	05/12/23 02:41	1
Magnesium	30000	B	12	5.7	mg/Kg	☆	05/02/23 15:49	05/12/23 23:19	2
Manganese	600	B	1.2	0.17	mg/Kg	☆	05/02/23 15:49	05/12/23 23:19	2
Nickel	33		0.58	0.17	mg/Kg	☆	05/02/23 15:49	05/12/23 02:41	1
Potassium	1900		29	10	mg/Kg	☆	05/02/23 15:49	05/12/23 02:41	1
Selenium	<1.2		1.2	0.68	mg/Kg	☆	05/02/23 15:49	05/12/23 23:19	2
Silver	<0.29		0.29	0.075	mg/Kg	☆	05/02/23 15:49	05/12/23 02:41	1
Sodium	1400		58	8.6	mg/Kg	☆	05/02/23 15:49	05/12/23 02:41	1
Thallium	<0.58		0.58	0.29	mg/Kg	☆	05/02/23 15:49	05/12/23 02:41	1
Vanadium	20	B	0.29	0.068	mg/Kg	☆	05/02/23 15:49	05/12/23 02:41	1
Zinc	70		1.2	0.51	mg/Kg	☆	05/02/23 15:49	05/12/23 02:41	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:28	05/17/23 16:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:28	05/17/23 16:39	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:39	1
Iron	<0.40		0.40	0.20	mg/L		05/04/23 17:28	05/17/23 16:39	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B170 Dup

Lab Sample ID: 500-233041-19

Date Collected: 04/28/23 12:00

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.9

Method: SW846 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		05/04/23 17:28	05/17/23 16:39	1
Manganese	0.23		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:39	1
Nickel	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 16:39	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.050	0.010	mg/L		05/03/23 17:48	05/16/23 22:25	1
Barium	0.92		0.50	0.050	mg/L		05/03/23 17:48	05/16/23 22:25	1
Beryllium	0.0092		0.0040	0.0040	mg/L		05/03/23 17:48	05/16/23 22:25	1
Boron	0.19		0.10	0.050	mg/L		05/03/23 17:48	05/16/23 22:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/16/23 22:25	1
Calcium	50		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 22:25	1
Chromium	0.18		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:25	1
Cobalt	0.057		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:25	1
Iron	220		0.40	0.20	mg/L		05/03/23 17:48	05/16/23 22:25	1
Lead	0.096		0.0075	0.0075	mg/L		05/03/23 17:48	05/16/23 22:25	1
Manganese	0.64		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:25	1
Nickel	0.20		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:25	1
Potassium	33		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 22:25	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/16/23 22:25	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:25	1
Zinc	0.65		0.50	0.020	mg/L		05/03/23 17:48	05/16/23 22:25	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:28	05/08/23 17:25	1

Method: SW846 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		05/03/23 17:48	05/05/23 00:30	1
Thallium	0.0041		0.0020	0.0020	mg/L		05/03/23 17:48	05/05/23 00:30	1

Method: SW846 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		05/11/23 11:40	05/12/23 11:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0099	mg/Kg	✱	05/11/23 16:00	05/12/23 08:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.24		0.24	0.12	mg/Kg	✱	05/05/23 08:11	05/05/23 10:23	1
pH (SW846 9045D)	7.9		0.2	0.2	SU			05/04/23 18:28	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B169

Lab Sample ID: 500-233041-20

Date Collected: 04/28/23 12:10

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 87.8

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Acetone	<0.016		0.016	0.0070	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Toluene	0.00085	J	0.0016	0.00041	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	✳	04/29/23 13:30	05/03/23 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	129		70 - 134	04/29/23 13:30	05/03/23 16:15	1
4-Bromofluorobenzene (Surr)	96		75 - 131	04/29/23 13:30	05/03/23 16:15	1
Dibromofluoromethane	126		75 - 126	04/29/23 13:30	05/03/23 16:15	1
Toluene-d8 (Surr)	110		75 - 124	04/29/23 13:30	05/03/23 16:15	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.026	mg/Kg	✳	05/10/23 07:54	05/11/23 19:50	1
1,2-Dichlorobenzene	<0.18		0.18	0.015	mg/Kg	✳	05/10/23 07:54	05/11/23 19:50	1
1,3-Dichlorobenzene	<0.18		0.18	0.016	mg/Kg	✳	05/10/23 07:54	05/11/23 19:50	1
1,4-Dichlorobenzene	<0.18		0.18	0.017	mg/Kg	✳	05/10/23 07:54	05/11/23 19:50	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.026	mg/Kg	✳	05/10/23 07:54	05/11/23 19:50	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B169

Lab Sample ID: 500-233041-20

Date Collected: 04/28/23 12:10

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 87.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.014	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
2,4,6-Trichlorophenol	<0.36		0.36	0.012	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
2,4-Dichlorophenol	<0.36		0.36	0.013	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
2,4-Dimethylphenol	<0.36		0.36	0.081	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
2,4-Dinitrophenol	<0.73		0.73	0.21	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
2,4-Dinitrotoluene	<0.18		0.18	0.021	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
2,6-Dinitrotoluene	<0.18		0.18	0.012	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
2-Chloronaphthalene	<0.18		0.18	0.014	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
2-Chlorophenol	<0.18		0.18	0.012	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
2-Methylnaphthalene	<0.073		0.073	0.0073	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
2-Methylphenol	<0.18		0.18	0.019	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
2-Nitroaniline	<0.18		0.18	0.019	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
2-Nitrophenol	<0.36		0.36	0.025	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
3 & 4 Methylphenol	<0.18		0.18	0.027	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
3-Nitroaniline	<0.36		0.36	0.016	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.20	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.025	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
4-Chloro-3-methylphenol	<0.36		0.36	0.014	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
4-Chloroaniline	<0.73		0.73	0.38	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
4-Nitroaniline	<0.36		0.36	0.027	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
4-Nitrophenol	<0.73		0.73	0.13	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Acenaphthene	<0.036		0.036	0.0074	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Acenaphthylene	<0.036		0.036	0.0062	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Anthracene	<0.036		0.036	0.0074	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Benzo[a]pyrene	<0.036		0.036	0.035	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Benzo[b]fluoranthene	<0.036		0.036	0.035	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Benzo[g,h,i]perylene	<0.036		0.036	0.0079	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Benzo[k]fluoranthene	<0.036		0.036	0.014	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.014	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.017	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.14	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Butyl benzyl phthalate	<0.18		0.18	0.018	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Carbazole	<0.18		0.18	0.014	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Chrysene	<0.036		0.036	0.0096	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Dibenz(a,h)anthracene	<0.036		0.036	0.036	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Dibenzofuran	<0.18		0.18	0.013	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Diethyl phthalate	<0.18		0.18	0.017	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Dimethyl phthalate	<0.18		0.18	0.0079	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Di-n-butyl phthalate	<0.18		0.18	0.011	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Di-n-octyl phthalate	<0.36		0.36	0.25	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Fluoranthene	<0.036		0.036	0.0084	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Fluorene	<0.036		0.036	0.011	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Hexachlorobenzene	<0.073		0.073	0.0069	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Hexachlorobutadiene	<0.18		0.18	0.020	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Hexachlorocyclopentadiene	<0.73		0.73	0.38	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1
Hexachloroethane	<0.18		0.18	0.018	mg/Kg	✱	05/10/23 07:54	05/11/23 19:50	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B169

Lab Sample ID: 500-233041-20

Date Collected: 04/28/23 12:10

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 87.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.035	mg/Kg	✳	05/10/23 07:54	05/11/23 19:50	1
Isophorone	<0.18		0.18	0.019	mg/Kg	✳	05/10/23 07:54	05/11/23 19:50	1
Naphthalene	<0.036		0.036	0.0066	mg/Kg	✳	05/10/23 07:54	05/11/23 19:50	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	✳	05/10/23 07:54	05/11/23 19:50	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.0072	mg/Kg	✳	05/10/23 07:54	05/11/23 19:50	1
N-Nitrosodiphenylamine	<0.18		0.18	0.022	mg/Kg	✳	05/10/23 07:54	05/11/23 19:50	1
Pentachlorophenol	<0.73		0.73	0.091	mg/Kg	✳	05/10/23 07:54	05/11/23 19:50	1
Phenanthrene	<0.036		0.036	0.0079	mg/Kg	✳	05/10/23 07:54	05/11/23 19:50	1
Phenol	<0.18		0.18	0.016	mg/Kg	✳	05/10/23 07:54	05/11/23 19:50	1
Pyrene	<0.036		0.036	0.0099	mg/Kg	✳	05/10/23 07:54	05/11/23 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		31 - 166				05/10/23 07:54	05/11/23 19:50	1
Phenol-d5	62		30 - 153				05/10/23 07:54	05/11/23 19:50	1
Nitrobenzene-d5 (Surr)	63		37 - 147				05/10/23 07:54	05/11/23 19:50	1
2-Fluorobiphenyl	78		43 - 145				05/10/23 07:54	05/11/23 19:50	1
2,4,6-Tribromophenol	82		31 - 143				05/10/23 07:54	05/11/23 19:50	1
Terphenyl-d14 (Surr)	93		42 - 157				05/10/23 07:54	05/11/23 19:50	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.1	0.21	mg/Kg	✳	05/02/23 15:49	05/12/23 02:44	1
Arsenic	9.5		0.55	0.19	mg/Kg	✳	05/02/23 15:49	05/12/23 02:44	1
Barium	59	B	0.55	0.062	mg/Kg	✳	05/02/23 15:49	05/12/23 02:44	1
Beryllium	0.35	J	1.1	0.26	mg/Kg	✳	05/02/23 15:49	05/12/23 23:22	5
Boron	12	J	14	1.3	mg/Kg	✳	05/02/23 15:49	05/12/23 23:22	5
Cadmium	0.092	J B	0.11	0.020	mg/Kg	✳	05/02/23 15:49	05/12/23 02:44	1
Calcium	76000	B	55	9.3	mg/Kg	✳	05/02/23 15:49	05/12/23 23:22	5
Chromium	11		0.55	0.27	mg/Kg	✳	05/02/23 15:49	05/12/23 02:44	1
Cobalt	9.7		0.27	0.072	mg/Kg	✳	05/02/23 15:49	05/12/23 02:44	1
Copper	25		0.55	0.15	mg/Kg	✳	05/02/23 15:49	05/12/23 02:44	1
Iron	21000	B	55	28	mg/Kg	✳	05/02/23 15:49	05/12/23 23:22	5
Lead	14		0.27	0.13	mg/Kg	✳	05/02/23 15:49	05/12/23 02:44	1
Magnesium	40000	B	27	14	mg/Kg	✳	05/02/23 15:49	05/12/23 23:22	5
Manganese	520	B	2.7	0.40	mg/Kg	✳	05/02/23 15:49	05/12/23 23:22	5
Nickel	24		0.55	0.16	mg/Kg	✳	05/02/23 15:49	05/12/23 02:44	1
Potassium	1400		27	9.7	mg/Kg	✳	05/02/23 15:49	05/12/23 02:44	1
Selenium	<2.7		2.7	1.6	mg/Kg	✳	05/02/23 15:49	05/12/23 23:22	5
Silver	<0.27		0.27	0.071	mg/Kg	✳	05/02/23 15:49	05/12/23 02:44	1
Sodium	1300		55	8.1	mg/Kg	✳	05/02/23 15:49	05/12/23 02:44	1
Thallium	<0.55		0.55	0.27	mg/Kg	✳	05/02/23 15:49	05/12/23 02:44	1
Vanadium	15	B	0.27	0.065	mg/Kg	✳	05/02/23 15:49	05/12/23 02:44	1
Zinc	74		1.1	0.48	mg/Kg	✳	05/02/23 15:49	05/12/23 02:44	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:28	05/17/23 17:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:28	05/17/23 17:28	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 17:28	1
Iron	<0.40		0.40	0.20	mg/L		05/04/23 17:28	05/17/23 17:28	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B169

Lab Sample ID: 500-233041-20

Date Collected: 04/28/23 12:10

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 87.8

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.11		0.0075	0.0075	mg/L		05/04/23 17:28	05/17/23 17:28	1
Manganese	4.8		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 17:28	1
Nickel	0.068		0.025	0.010	mg/L		05/04/23 17:28	05/17/23 17:28	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12		0.050	0.010	mg/L		05/03/23 17:48	05/16/23 22:29	1
Barium	0.58		0.50	0.050	mg/L		05/03/23 17:48	05/16/23 22:29	1
Beryllium	0.0074		0.0040	0.0040	mg/L		05/03/23 17:48	05/16/23 22:29	1
Boron	0.24		0.10	0.050	mg/L		05/03/23 17:48	05/16/23 22:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/16/23 22:29	1
Calcium	30		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 22:29	1
Chromium	0.13		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:29	1
Cobalt	0.060		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:29	1
Iron	180		0.40	0.20	mg/L		05/03/23 17:48	05/16/23 22:29	1
Lead	0.066		0.0075	0.0075	mg/L		05/03/23 17:48	05/16/23 22:29	1
Manganese	0.66		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:29	1
Nickel	0.21		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:29	1
Potassium	29		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 22:29	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/16/23 22:29	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:29	1
Zinc	0.76		0.50	0.020	mg/L		05/03/23 17:48	05/16/23 22:29	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:28	05/08/23 17:56	1

Method: SW846 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		05/03/23 17:48	05/05/23 00:36	1
Thallium	0.0085		0.0020	0.0020	mg/L		05/03/23 17:48	05/05/23 00:36	1

Method: SW846 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		05/11/23 11:40	05/12/23 11:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0092	mg/Kg	✱	05/11/23 16:00	05/12/23 08:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.24		0.24	0.12	mg/Kg	✱	05/05/23 08:12	05/05/23 10:24	1
pH (SW846 9045D)	8.1		0.2	0.2	SU			05/04/23 18:31	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B168

Lab Sample ID: 500-233041-21

Date Collected: 04/28/23 12:20

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.6

Method: SW846 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	✳	04/29/23 13:30	05/03/23 16:40	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Acetone	<0.017		0.017	0.0075	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Toluene	0.00083	J	0.0017	0.00043	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	✳	04/29/23 13:30	05/03/23 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	127		70 - 134	04/29/23 13:30	05/03/23 16:40	1
4-Bromofluorobenzene (Surr)	97		75 - 131	04/29/23 13:30	05/03/23 16:40	1
Dibromofluoromethane	125		75 - 126	04/29/23 13:30	05/03/23 16:40	1
Toluene-d8 (Surr)	108		75 - 124	04/29/23 13:30	05/03/23 16:40	1

Method: SW846 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	0.028	mg/Kg	✳	05/04/23 13:05	05/05/23 18:27	1
1,2-Dichlorobenzene	<0.19		0.19	0.016	mg/Kg	✳	05/04/23 13:05	05/05/23 18:27	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	✳	05/04/23 13:05	05/05/23 18:27	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	✳	05/04/23 13:05	05/05/23 18:27	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.028	mg/Kg	✳	05/04/23 13:05	05/05/23 18:27	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B168

Lab Sample ID: 500-233041-21

Date Collected: 04/28/23 12:20

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.6

Method: SW846 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	0.015	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
2,4-Dichlorophenol	<0.38		0.38	0.014	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
2,4-Dimethylphenol	<0.38		0.38	0.086	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
2,4-Dinitrophenol	<0.78		0.78	0.22	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
2-Methylnaphthalene	<0.078		0.078	0.0077	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
2-Nitroaniline	<0.19		0.19	0.021	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
3-Nitroaniline	<0.38		0.38	0.018	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.22	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
4-Chloroaniline	<0.78		0.78	0.40	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
4-Nitrophenol	<0.78		0.78	0.14	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Acenaphthene	<0.038		0.038	0.0078	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Acenaphthylene	<0.038		0.038	0.0065	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Anthracene	<0.038		0.038	0.0079	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Benzo[a]anthracene	0.012	J	0.038	0.0082	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Benzo[a]pyrene	0.045		0.038	0.037	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Benzo[b]fluoranthene	0.044		0.038	0.037	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Benzo[g,h,i]perylene	0.012	J	0.038	0.0084	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Benzo[k]fluoranthene	<0.038		0.038	0.015	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Dibenzofuran	<0.19		0.19	0.014	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Diethyl phthalate	<0.19		0.19	0.018	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Dimethyl phthalate	<0.19		0.19	0.0084	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Fluoranthene	0.0098	J	0.038	0.0090	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Hexachlorobenzene	<0.078		0.078	0.0074	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Hexachlorobutadiene	<0.19		0.19	0.022	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Hexachlorocyclopentadiene	<0.78		0.78	0.41	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☼	05/04/23 13:05	05/05/23 18:27	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B168

Lab Sample ID: 500-233041-21

Date Collected: 04/28/23 12:20

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.6

Method: SW846 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	0.038	mg/Kg	☆	05/04/23 13:05	05/05/23 18:27	1
Isophorone	<0.19		0.19	0.020	mg/Kg	☆	05/04/23 13:05	05/05/23 18:27	1
Naphthalene	<0.038		0.038	0.0070	mg/Kg	☆	05/04/23 13:05	05/05/23 18:27	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☆	05/04/23 13:05	05/05/23 18:27	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.0076	mg/Kg	☆	05/04/23 13:05	05/05/23 18:27	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	☆	05/04/23 13:05	05/05/23 18:27	1
Pentachlorophenol	<0.78		0.78	0.096	mg/Kg	☆	05/04/23 13:05	05/05/23 18:27	1
Phenanthrene	<0.038		0.038	0.0084	mg/Kg	☆	05/04/23 13:05	05/05/23 18:27	1
Phenol	<0.19		0.19	0.017	mg/Kg	☆	05/04/23 13:05	05/05/23 18:27	1
Pyrene	<0.038		0.038	0.011	mg/Kg	☆	05/04/23 13:05	05/05/23 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		31 - 166	05/04/23 13:05	05/05/23 18:27	1
Phenol-d5	61		30 - 153	05/04/23 13:05	05/05/23 18:27	1
Nitrobenzene-d5 (Surr)	56		37 - 147	05/04/23 13:05	05/05/23 18:27	1
2-Fluorobiphenyl	60		43 - 145	05/04/23 13:05	05/05/23 18:27	1
2,4,6-Tribromophenol	61		31 - 143	05/04/23 13:05	05/05/23 18:27	1
Terphenyl-d14 (Surr)	77		42 - 157	05/04/23 13:05	05/05/23 18:27	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.1	0.22	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Arsenic	8.8		0.57	0.19	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Barium	34		0.57	0.065	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Beryllium	0.66		0.23	0.053	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Boron	9.0		2.8	0.26	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Cadmium	0.038	J	0.11	0.020	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Calcium	56000	B	11	1.9	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Chromium	13		0.57	0.28	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Cobalt	12		0.28	0.074	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Copper	22		0.57	0.16	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Iron	18000		11	5.9	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Lead	13		0.28	0.13	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Magnesium	28000		5.7	2.8	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Manganese	450		0.57	0.082	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Nickel	30		0.57	0.17	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Potassium	1600		28	10	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Selenium	<0.57		0.57	0.33	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Silver	0.23	J	0.28	0.073	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Sodium	1800		57	8.4	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Thallium	<0.57		0.57	0.28	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Vanadium	17		0.28	0.067	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1
Zinc	65		1.1	0.50	mg/Kg	☆	05/02/23 15:49	05/17/23 00:08	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/04/23 17:28	05/06/23 02:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/04/23 17:28	05/06/23 02:24	1
Chromium	<0.025		0.025	0.010	mg/L		05/04/23 17:28	05/06/23 02:24	1
Iron	<0.40		0.40	0.20	mg/L		05/04/23 17:28	05/06/23 02:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Client Sample ID: 2233V3-1-B168

Lab Sample ID: 500-233041-21

Date Collected: 04/28/23 12:20

Matrix: Solid

Date Received: 04/28/23 15:48

Percent Solids: 85.6

Method: SW846 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		05/04/23 17:28	05/06/23 02:24	1
Manganese	3.4		0.025	0.010	mg/L		05/04/23 17:28	05/06/23 02:24	1
Nickel	0.043		0.025	0.010	mg/L		05/04/23 17:28	05/06/23 02:24	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.050	0.010	mg/L		05/03/23 17:48	05/16/23 22:32	1
Barium	0.57		0.50	0.050	mg/L		05/03/23 17:48	05/16/23 22:32	1
Beryllium	0.0082		0.0040	0.0040	mg/L		05/03/23 17:48	05/16/23 22:32	1
Boron	0.18		0.10	0.050	mg/L		05/03/23 17:48	05/16/23 22:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/03/23 17:48	05/16/23 22:32	1
Calcium	48		2.5	0.50	mg/L		05/03/23 17:48	05/16/23 22:32	1
Chromium	0.16		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:32	1
Cobalt	0.061		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:32	1
Iron	190		0.40	0.20	mg/L		05/03/23 17:48	05/16/23 22:32	1
Lead	0.080		0.0075	0.0075	mg/L		05/03/23 17:48	05/16/23 22:32	1
Manganese	0.73		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:32	1
Nickel	0.20		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:32	1
Potassium	29	F1	2.5	0.50	mg/L		05/03/23 17:48	05/16/23 22:32	1
Selenium	<0.050		0.050	0.020	mg/L		05/03/23 17:48	05/16/23 22:32	1
Silver	<0.025		0.025	0.010	mg/L		05/03/23 17:48	05/16/23 22:32	1
Zinc	0.61		0.50	0.020	mg/L		05/03/23 17:48	05/16/23 22:32	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/04/23 17:28	05/09/23 15:32	1

Method: SW846 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		05/03/23 17:48	05/05/23 00:38	1
Thallium	0.0058		0.0020	0.0020	mg/L		05/03/23 17:48	05/05/23 00:38	1

Method: SW846 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		05/11/23 11:40	05/12/23 11:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0099	mg/Kg	✱	05/11/23 16:00	05/12/23 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.24		0.24	0.12	mg/Kg	✱	05/05/23 08:13	05/05/23 10:26	1
pH (SW846 9045D)	8.3		0.2	0.2	SU			05/04/23 18:33	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD 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.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
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.
S1-	Surrogate recovery exceeds control limits, low biased.

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.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
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
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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)

Eurofins Chicago

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

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Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233041-1

Laboratory: Eurofins Chicago


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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-23 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	 500-233041 COC	Laboratory Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email Jodie.Bracken@ET.EurofinsUS.com	Project Name <u>AES-010A</u> Project No <u>PTB/WO #: 195-002/010A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>J. Weisbrodt</u>	COC No <u>1</u> of <u>3</u> Lab Job No.: <u>500-233041</u> Sample Temp: <u>28-27, 55-754</u>
--	---	--	---	--

Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3) run TCLP for that specific RCRA metal
 ** If SPLP result exceeds Class I Standard run TCLP for that specific parameter
 *** If total cyanide exceeds MAC run ASTM D3987 (Neutral Leach) cyanide

ANALYSES

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization			
1	2233V3-1-B180	4/28/23	0900	S	X	X					X	X	X	X	X				
2	2233V3-1-B179		0910																
3	2233V3-1-B178		0920																
4	2233V3-1-B177-1		0930																
5	2233V3-1-B177-2		0940																
6	2233V3-1-B177-3		0950																
7	2233V3-1-B176-1		1000																
8	2233V3-1-B176-2		1010																
9	2233V3-1-B176-2 DVP		1020																
10	2233V3-1-B176-3		1030																
11	2233V3-1-B175-1		1046		↓	↓					↓	↓	↓	↓	↓				

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

Relinquished by <u>Arcidichodun</u>	Date/Time <u>4/28/23 1450</u>	Received by <u>J. J. Elias</u>	Date/Time <u>4/28/23 1450</u>
Relinquished by <u>M. J. Elias</u>	Date/Time <u>4/28/23 1548</u>	Received by <u>Jodie Bracken</u>	Date/Time <u>4/28/23 1548</u>
Relinquished by	Date/Time	Received by	Date/Time

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name <u>AES-010A</u>	COC No <u>2 of 3</u>
Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email <u>Jodie.Bracken@ET EurofinsUS.com</u>	Project No <u>PTB/WO#:195-002/010A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Lab Job No.: <u>500-233041</u>
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3) run TCLP for that specific RCRA metal ** If SPLP result exceeds Class I Standard run TCLP for that specific parameter *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide			Sample Temp:
		Analyses: <u>J. Weisbrodt</u>	Matrix Key: W Water S Soil SL Sludge S Sediment L Leachate DW Drinking Water OL Oil O Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES													Comments						
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization								
12	2233V3-1-B175-2	4/24/23	1050	S	X	X						X	X	X	X	X								
13	2233V3-1-B175-3		1100																					
14	2233V3-1-B174		1110																					
15	2233V3-1-B173		1120																					
16	2233V3-1-B172		1130																					
17	2233V3-1-B171		1140																					
18	2233V3-1-B170		1150																					
19 *	2233V3-1-B170 DUP		1200																					
20	2233V3-1-B169		1210																					
21	2233V3-1-B168	↓	1220									↓	↓	↓	↓	↓								
22	2233V3-1-Trip Blank #5			↓	↓	↓						↓	↓	↓	↓	↓								

Relinquished by <u>Aneel Khodai</u>	Date/Time <u>4/28/23 1450</u>	Received by <u>J. Weisbrodt</u>	Date/Time <u>4/28/23 1450</u>
Relinquished by <u>J. Elhar</u>	Date/Time <u>4/28/23 1548</u>	Received by <u>[Signature]</u>	Date/Time <u>4/28/23 1548</u>
Relinquished by	Date/Time	Received by	Date/Time



ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Colleen Grey
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Generated 5/17/2023 12:39:17 PM

JOB DESCRIPTION

IDOT - AE8-010

JOB NUMBER

500-233155-1

Eurofins Chicago

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Authorized for release by
Jodie Bracken, Project Management Assistant II
Jodie.Bracken@et.eurofinsus.com
(708)534-5200

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B127

Lab Sample ID: 500-233155-1

Date Collected: 05/01/23 09:00

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 78.4

Method: SW846 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	✳	05/02/23 17:48	05/03/23 14:36	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
1,1-Dichloroethane	<0.0019		0.0019	0.00067	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Acetone	<0.019		0.019	0.0085	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Benzene	<0.0019		0.0019	0.00050	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Bromodichloromethane	<0.0019		0.0019	0.00040	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Chlorobenzene	<0.0019		0.0019	0.00072	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00059	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Dibromochloromethane	<0.0019		0.0019	0.00064	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Styrene	<0.0019		0.0019	0.00059	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Trichloroethene	<0.0019		0.0019	0.00066	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	✳	05/02/23 17:48	05/03/23 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	05/02/23 17:48	05/03/23 14:36	1
4-Bromofluorobenzene (Surr)	90		75 - 131	05/02/23 17:48	05/03/23 14:36	1
Dibromofluoromethane	99		75 - 126	05/02/23 17:48	05/03/23 14:36	1
Toluene-d8 (Surr)	87		75 - 124	05/02/23 17:48	05/03/23 14:36	1

Method: SW846 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	0.030	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
1,2-Dichlorobenzene	<0.21		0.21	0.017	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
1,3-Dichlorobenzene	<0.21		0.21	0.019	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
1,4-Dichlorobenzene	<0.21		0.21	0.020	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.030	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B127

Lab Sample ID: 500-233155-1

Date Collected: 05/01/23 09:00

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 78.4

Method: SW846 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	0.016	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
2,4,6-Trichlorophenol	<0.42		0.42	0.014	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
2,4-Dichlorophenol	<0.42		0.42	0.015	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
2,4-Dimethylphenol	<0.42		0.42	0.094	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
2,4-Dinitrophenol	<0.85		0.85	0.24	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
2,4-Dinitrotoluene	<0.21		0.21	0.024	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
2,6-Dinitrotoluene	<0.21		0.21	0.014	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
2-Chloronaphthalene	<0.21		0.21	0.016	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
2-Chlorophenol	<0.21		0.21	0.014	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
2-Methylnaphthalene	<0.085		0.085	0.0085	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
2-Methylphenol	<0.21		0.21	0.022	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
2-Nitroaniline	<0.21		0.21	0.023	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
2-Nitrophenol	<0.42		0.42	0.029	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
3 & 4 Methylphenol	<0.21		0.21	0.031	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
3-Nitroaniline	<0.42		0.42	0.019	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.24	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.029	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
4-Chloro-3-methylphenol	<0.42		0.42	0.016	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
4-Chloroaniline	<0.85		0.85	0.44	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
4-Nitroaniline	<0.42		0.42	0.031	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
4-Nitrophenol	<0.85		0.85	0.16	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Acenaphthene	<0.042		0.042	0.0086	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Acenaphthylene	<0.042		0.042	0.0072	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Anthracene	<0.042		0.042	0.0086	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Benzo[a]anthracene	<0.042		0.042	0.0089	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Benzo[a]pyrene	<0.042		0.042	0.041	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Benzo[b]fluoranthene	<0.042		0.042	0.040	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Benzo[g,h,i]perylene	0.020	J	0.042	0.0091	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Benzo[k]fluoranthene	<0.042		0.042	0.016	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.016	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.019	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.17	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Butyl benzyl phthalate	<0.21		0.21	0.021	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Carbazole	<0.21		0.21	0.017	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Chrysene	0.016	J	0.042	0.011	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Dibenz(a,h)anthracene	<0.042		0.042	0.042	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Dibenzofuran	<0.21		0.21	0.015	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Diethyl phthalate	<0.21		0.21	0.019	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Dimethyl phthalate	<0.21		0.21	0.0092	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Di-n-butyl phthalate	<0.21		0.21	0.013	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Di-n-octyl phthalate	<0.42		0.42	0.29	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Fluoranthene	0.015	J	0.042	0.0098	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Fluorene	<0.042		0.042	0.012	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Hexachlorobenzene	<0.085		0.085	0.0081	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Hexachlorobutadiene	<0.21		0.21	0.024	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Hexachlorocyclopentadiene	<0.85		0.85	0.45	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Hexachloroethane	<0.21		0.21	0.021	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B127

Lab Sample ID: 500-233155-1

Date Collected: 05/01/23 09:00

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 78.4

Method: SW846 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	0.041	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Isophorone	<0.21		0.21	0.022	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Naphthalene	<0.042		0.042	0.0076	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.0083	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
N-Nitrosodiphenylamine	<0.21		0.21	0.025	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Pentachlorophenol	<0.85		0.85	0.11	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Phenanthrene	<0.042		0.042	0.0092	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Phenol	<0.21		0.21	0.018	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1
Pyrene	0.014	J	0.042	0.012	mg/Kg	✳	05/11/23 07:45	05/16/23 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	32		31 - 166	05/11/23 07:45	05/16/23 16:40	1
Phenol-d5	35		30 - 153	05/11/23 07:45	05/16/23 16:40	1
Nitrobenzene-d5 (Surr)	38		37 - 147	05/11/23 07:45	05/16/23 16:40	1
2-Fluorobiphenyl	43		43 - 145	05/11/23 07:45	05/16/23 16:40	1
2,4,6-Tribromophenol	44		31 - 143	05/11/23 07:45	05/16/23 16:40	1
Terphenyl-d14 (Surr)	48		42 - 157	05/11/23 07:45	05/16/23 16:40	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J F1	1.3	0.25	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Arsenic	8.6	F1	0.64	0.22	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Barium	74		0.64	0.073	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Beryllium	0.95	F1	0.25	0.059	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Boron	4.6	F1	3.2	0.30	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Cadmium	<0.13	F1	0.13	0.023	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Calcium	11000	B	13	2.2	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Chromium	19		0.64	0.32	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Cobalt	9.2		0.32	0.083	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Copper	24		0.64	0.18	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Iron	24000		13	6.6	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Lead	18	F1	0.32	0.15	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Magnesium	8000		6.4	3.2	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Manganese	260		0.64	0.092	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Nickel	25	F1	0.64	0.19	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Potassium	1300	F1	32	11	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Selenium	<0.64	F1	0.64	0.37	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Silver	0.41		0.32	0.082	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Sodium	3000		64	9.4	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Thallium	<0.64		0.64	0.32	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Vanadium	26		0.32	0.075	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1
Zinc	91		1.3	0.56	mg/Kg	✳	05/03/23 10:48	05/15/23 23:16	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/05/23 17:00	05/15/23 20:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/05/23 17:00	05/15/23 20:36	1
Chromium	<0.025		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 20:36	1
Iron	0.84		0.40	0.20	mg/L		05/05/23 17:00	05/15/23 20:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B127

Lab Sample ID: 500-233155-1

Date Collected: 05/01/23 09:00

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 78.4

Method: SW846 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		05/05/23 17:00	05/15/23 20:36	1
Manganese	<0.025		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 20:36	1
Nickel	<0.025		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 20:36	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.15		0.050	0.010	mg/L		05/05/23 17:01	05/16/23 01:05	1
Barium	0.99		0.50	0.050	mg/L		05/05/23 17:01	05/16/23 01:05	1
Beryllium	0.011		0.0040	0.0040	mg/L		05/05/23 17:01	05/16/23 01:05	1
Boron	0.15		0.10	0.050	mg/L		05/05/23 17:01	05/16/23 01:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/05/23 17:01	05/16/23 01:05	1
Calcium	39		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 01:05	1
Chromium	0.22		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:05	1
Cobalt	0.062		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:05	1
Iron	290		0.40	0.20	mg/L		05/05/23 17:01	05/16/23 01:05	1
Lead	0.14		0.0075	0.0075	mg/L		05/05/23 17:01	05/16/23 01:05	1
Manganese	0.90		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:05	1
Nickel	0.25		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:05	1
Potassium	26		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 01:05	1
Selenium	<0.050		0.050	0.020	mg/L		05/05/23 17:01	05/16/23 01:05	1
Silver	<0.025		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:05	1
Zinc	0.95		0.50	0.020	mg/L		05/05/23 17:01	05/16/23 01:05	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/05/23 17:00	05/11/23 15:01	1

Method: SW846 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		05/05/23 17:01	05/08/23 13:59	1
Thallium	0.0052		0.0020	0.0020	mg/L		05/05/23 17:01	05/08/23 13:59	1

Method: SW846 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		05/15/23 11:40	05/16/23 10:54	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0099	mg/Kg	✱	05/11/23 16:00	05/12/23 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27	F1	0.27	0.14	mg/Kg	✱	05/05/23 08:14	05/05/23 10:27	1
pH (SW846 9045D)	8.4		0.2	0.2	SU			05/04/23 18:36	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B129

Lab Sample ID: 500-233155-3

Date Collected: 05/01/23 09:20

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 80.7

Method: SW846 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	0.00068	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00071	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Acetone	0.025		0.020	0.0088	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	✳	05/02/23 17:48	05/03/23 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	05/02/23 17:48	05/03/23 15:26	1
4-Bromofluorobenzene (Surr)	91		75 - 131	05/02/23 17:48	05/03/23 15:26	1
Dibromofluoromethane	97		75 - 126	05/02/23 17:48	05/03/23 15:26	1
Toluene-d8 (Surr)	90		75 - 124	05/02/23 17:48	05/03/23 15:26	1

Method: SW846 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	0.028	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B129

Lab Sample ID: 500-233155-3

Date Collected: 05/01/23 09:20

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 80.7

Method: SW846 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	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
2,4,6-Trichlorophenol	<0.39		0.39	0.013	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
2,4-Dimethylphenol	<0.39		0.39	0.088	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
2,4-Dinitrophenol	<0.79		0.79	0.23	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.022	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
2-Methylnaphthalene	<0.079		0.079	0.0079	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
2-Nitrophenol	<0.39		0.39	0.027	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.22	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
4-Chloroaniline	<0.79		0.79	0.41	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
4-Nitrophenol	<0.79		0.79	0.15	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Acenaphthene	<0.039		0.039	0.0080	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Acenaphthylene	<0.039		0.039	0.0066	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Anthracene	<0.039		0.039	0.0080	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Benzo[a]anthracene	0.021	J	0.039	0.0083	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Benzo[a]pyrene	<0.039		0.039	0.038	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Benzo[b]fluoranthene	<0.039		0.039	0.037	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Benzo[g,h,i]perylene	0.023	J	0.039	0.0085	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Benzo[k]fluoranthene	<0.039		0.039	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.15	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Butyl benzyl phthalate	<0.20		0.20	0.019	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Carbazole	<0.20		0.20	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Chrysene	0.012	J	0.039	0.010	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Dimethyl phthalate	<0.20		0.20	0.0085	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Di-n-butyl phthalate	<0.20		0.20	0.012	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Di-n-octyl phthalate	<0.39		0.39	0.27	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Fluoranthene	0.014	J	0.039	0.0091	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Fluorene	<0.039		0.039	0.012	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Hexachlorobenzene	<0.079		0.079	0.0075	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Hexachlorocyclopentadiene	<0.79		0.79	0.42	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	✳	05/11/23 07:45	05/12/23 21:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B129

Lab Sample ID: 500-233155-3

Date Collected: 05/01/23 09:20

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 80.7

Method: SW846 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	0.038	mg/Kg	✱	05/11/23 07:45	05/12/23 21:00	1
Isophorone	<0.20		0.20	0.020	mg/Kg	✱	05/11/23 07:45	05/12/23 21:00	1
Naphthalene	<0.039		0.039	0.0071	mg/Kg	✱	05/11/23 07:45	05/12/23 21:00	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	✱	05/11/23 07:45	05/12/23 21:00	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.0077	mg/Kg	✱	05/11/23 07:45	05/12/23 21:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.023	mg/Kg	✱	05/11/23 07:45	05/12/23 21:00	1
Pentachlorophenol	<0.79		0.79	0.098	mg/Kg	✱	05/11/23 07:45	05/12/23 21:00	1
Phenanthrene	<0.039		0.039	0.0085	mg/Kg	✱	05/11/23 07:45	05/12/23 21:00	1
Phenol	<0.20		0.20	0.017	mg/Kg	✱	05/11/23 07:45	05/12/23 21:00	1
Pyrene	0.014	J	0.039	0.011	mg/Kg	✱	05/11/23 07:45	05/12/23 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		31 - 166	05/11/23 07:45	05/12/23 21:00	1
Phenol-d5	61		30 - 153	05/11/23 07:45	05/12/23 21:00	1
Nitrobenzene-d5 (Surr)	59		37 - 147	05/11/23 07:45	05/12/23 21:00	1
2-Fluorobiphenyl	66		43 - 145	05/11/23 07:45	05/12/23 21:00	1
2,4,6-Tribromophenol	66		31 - 143	05/11/23 07:45	05/12/23 21:00	1
Terphenyl-d14 (Surr)	82		42 - 157	05/11/23 07:45	05/12/23 21:00	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.2	0.22	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Arsenic	7.3		0.58	0.20	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Barium	80		0.58	0.066	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Beryllium	0.85		0.23	0.054	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Boron	6.6		2.9	0.27	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Cadmium	0.050	J	0.12	0.021	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Calcium	2700	B	12	1.9	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Chromium	19		0.58	0.28	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Cobalt	14		0.29	0.075	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Copper	19		0.58	0.16	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Iron	20000		12	6.0	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Lead	16		0.29	0.13	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Magnesium	4100		5.8	2.9	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Manganese	490		0.58	0.083	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Nickel	36		0.58	0.17	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Potassium	1700		29	10	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Selenium	<0.58		0.58	0.34	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Silver	0.46		0.29	0.074	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Sodium	2300		58	8.5	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Thallium	<0.58		0.58	0.29	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Vanadium	29		0.29	0.068	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1
Zinc	73		1.2	0.50	mg/Kg	✱	05/03/23 10:48	05/15/23 23:44	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/05/23 17:00	05/15/23 20:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/05/23 17:00	05/15/23 20:43	1
Chromium	<0.025		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 20:43	1
Iron	0.55		0.40	0.20	mg/L		05/05/23 17:00	05/15/23 20:43	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B129

Lab Sample ID: 500-233155-3

Date Collected: 05/01/23 09:20

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 80.7

Method: SW846 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		05/05/23 17:00	05/15/23 20:43	1
Manganese	11		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 20:43	1
Nickel	0.059		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 20:43	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.081		0.050	0.010	mg/L		05/05/23 17:01	05/16/23 01:12	1
Barium	1.0		0.50	0.050	mg/L		05/05/23 17:01	05/16/23 01:12	1
Beryllium	0.011		0.0040	0.0040	mg/L		05/05/23 17:01	05/16/23 01:12	1
Boron	0.15		0.10	0.050	mg/L		05/05/23 17:01	05/16/23 01:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/05/23 17:01	05/16/23 01:12	1
Calcium	26		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 01:12	1
Chromium	0.23		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:12	1
Cobalt	0.12		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:12	1
Iron	250		0.40	0.20	mg/L		05/05/23 17:01	05/16/23 01:12	1
Lead	0.10		0.0075	0.0075	mg/L		05/05/23 17:01	05/16/23 01:12	1
Manganese	5.0		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:12	1
Nickel	0.35		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:12	1
Potassium	29		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 01:12	1
Selenium	<0.050		0.050	0.020	mg/L		05/05/23 17:01	05/16/23 01:12	1
Silver	<0.025		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:12	1
Zinc	0.73		0.50	0.020	mg/L		05/05/23 17:01	05/16/23 01:12	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/05/23 17:00	05/11/23 15:05	1

Method: SW846 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		05/05/23 17:01	05/08/23 14:03	1
Thallium	0.0048		0.0020	0.0020	mg/L		05/05/23 17:01	05/08/23 14:03	1

Method: SW846 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		05/15/23 11:40	05/16/23 11:03	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.010	mg/Kg	✱	05/11/23 16:00	05/12/23 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.30		0.30	0.15	mg/Kg	✱	05/05/23 08:19	05/05/23 10:38	1
pH (SW846 9045D)	7.7		0.2	0.2	SU			05/04/23 18:41	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B131

Lab Sample ID: 500-233155-7

Date Collected: 05/01/23 10:00

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 84.3

Method: SW846 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	0.00062	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Acetone	<0.019		0.019	0.0081	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	✳	05/02/23 17:48	05/03/23 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	05/02/23 17:48	05/03/23 17:08	1
4-Bromofluorobenzene (Surr)	90		75 - 131	05/02/23 17:48	05/03/23 17:08	1
Dibromofluoromethane	99		75 - 126	05/02/23 17:48	05/03/23 17:08	1
Toluene-d8 (Surr)	89		75 - 124	05/02/23 17:48	05/03/23 17:08	1

Method: SW846 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	0.027	mg/Kg	✳	05/11/23 07:45	05/12/23 19:48	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 19:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	✳	05/11/23 07:45	05/12/23 19:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	✳	05/11/23 07:45	05/12/23 19:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	✳	05/11/23 07:45	05/12/23 19:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B131

Lab Sample ID: 500-233155-7

Date Collected: 05/01/23 10:00

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 84.3

Method: SW846 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	0.014	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
2,4-Dinitrophenol	<0.77		0.77	0.22	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
2-Methylnaphthalene	<0.077		0.077	0.0076	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.21	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
4-Chloroaniline	<0.77		0.77	0.40	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
4-Nitrophenol	<0.77		0.77	0.14	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Acenaphthene	<0.038		0.038	0.0077	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Acenaphthylene	<0.038		0.038	0.0065	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Anthracene	<0.038		0.038	0.0078	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Benzo[a]pyrene	<0.038		0.038	0.037	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Benzo[g,h,i]perylene	<0.038		0.038	0.0082	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Benzo[k]fluoranthene	<0.038		0.038	0.014	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Dibenzofuran	<0.19		0.19	0.014	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Dimethyl phthalate	<0.19		0.19	0.0083	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Fluoranthene	<0.038		0.038	0.0088	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Fluorene	<0.038		0.038	0.011	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Hexachlorobenzene	<0.077		0.077	0.0073	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Hexachlorocyclopentadiene	<0.77		0.77	0.40	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	05/11/23 07:45	05/12/23 19:48	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B131

Lab Sample ID: 500-233155-7

Date Collected: 05/01/23 10:00

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 84.3

Method: SW846 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	0.037	mg/Kg	✳	05/11/23 07:45	05/12/23 19:48	1
Isophorone	<0.19		0.19	0.020	mg/Kg	✳	05/11/23 07:45	05/12/23 19:48	1
Naphthalene	<0.038		0.038	0.0069	mg/Kg	✳	05/11/23 07:45	05/12/23 19:48	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	✳	05/11/23 07:45	05/12/23 19:48	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.0075	mg/Kg	✳	05/11/23 07:45	05/12/23 19:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	✳	05/11/23 07:45	05/12/23 19:48	1
Pentachlorophenol	<0.77		0.77	0.095	mg/Kg	✳	05/11/23 07:45	05/12/23 19:48	1
Phenanthrene	<0.038		0.038	0.0083	mg/Kg	✳	05/11/23 07:45	05/12/23 19:48	1
Phenol	<0.19		0.19	0.017	mg/Kg	✳	05/11/23 07:45	05/12/23 19:48	1
Pyrene	<0.038		0.038	0.010	mg/Kg	✳	05/11/23 07:45	05/12/23 19:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		31 - 166				05/11/23 07:45	05/12/23 19:48	1
Phenol-d5	65		30 - 153				05/11/23 07:45	05/12/23 19:48	1
Nitrobenzene-d5 (Surr)	63		37 - 147				05/11/23 07:45	05/12/23 19:48	1
2-Fluorobiphenyl	67		43 - 145				05/11/23 07:45	05/12/23 19:48	1
2,4,6-Tribromophenol	68		31 - 143				05/11/23 07:45	05/12/23 19:48	1
Terphenyl-d14 (Surr)	88		42 - 157				05/11/23 07:45	05/12/23 19:48	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Arsenic	6.3		0.57	0.19	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Barium	52		0.57	0.065	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Beryllium	0.76		0.23	0.053	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Boron	9.8		2.8	0.27	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Cadmium	<0.11		0.11	0.020	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Calcium	80000	B	57	9.6	mg/Kg	✳	05/03/23 10:48	05/16/23 22:15	5
Chromium	17		0.57	0.28	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Cobalt	8.6		0.28	0.075	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Copper	16		0.57	0.16	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Iron	19000		11	5.9	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Lead	12		0.28	0.13	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Magnesium	28000		5.7	2.8	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Manganese	250		0.57	0.083	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Nickel	22		0.57	0.17	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Potassium	2000		28	10	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Selenium	<0.57		0.57	0.33	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Silver	0.29		0.28	0.073	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Sodium	1700		57	8.4	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Thallium	<0.57		0.57	0.28	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Vanadium	21		0.28	0.067	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1
Zinc	63		1.1	0.50	mg/Kg	✳	05/03/23 10:48	05/15/23 23:58	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012	J	0.050	0.010	mg/L		05/05/23 17:00	05/15/23 21:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/05/23 17:00	05/15/23 21:54	1
Chromium	<0.025		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 21:54	1
Iron	<0.40		0.40	0.20	mg/L		05/05/23 17:00	05/15/23 21:54	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B131

Lab Sample ID: 500-233155-7

Date Collected: 05/01/23 10:00

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 84.3

Method: SW846 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		05/05/23 17:00	05/15/23 21:54	1
Manganese	2.5		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 21:54	1
Nickel	0.028		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 21:54	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.084		0.050	0.010	mg/L		05/05/23 17:01	05/16/23 01:25	1
Barium	0.65		0.50	0.050	mg/L		05/05/23 17:01	05/16/23 01:25	1
Beryllium	0.0082		0.0040	0.0040	mg/L		05/05/23 17:01	05/16/23 01:25	1
Boron	0.16		0.10	0.050	mg/L		05/05/23 17:01	05/16/23 01:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/05/23 17:01	05/16/23 01:25	1
Calcium	57		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 01:25	1
Chromium	0.17		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:25	1
Cobalt	0.050		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:25	1
Iron	200		0.40	0.20	mg/L		05/05/23 17:01	05/16/23 01:25	1
Lead	0.076		0.0075	0.0075	mg/L		05/05/23 17:01	05/16/23 01:25	1
Manganese	0.63		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:25	1
Nickel	0.18		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:25	1
Potassium	28		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 01:25	1
Selenium	<0.050		0.050	0.020	mg/L		05/05/23 17:01	05/16/23 01:25	1
Silver	<0.025		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:25	1
Zinc	0.57		0.50	0.020	mg/L		05/05/23 17:01	05/16/23 01:25	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/05/23 17:00	05/11/23 15:51	1

Method: SW846 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		05/05/23 17:01	05/08/23 14:11	1
Thallium	0.0041		0.0020	0.0020	mg/L		05/05/23 17:01	05/08/23 14:11	1

Method: SW846 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		05/15/23 11:40	05/16/23 11:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0098	mg/Kg	✱	05/11/23 16:00	05/12/23 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.25		0.25	0.12	mg/Kg	✱	05/05/23 08:23	05/05/23 10:45	1
pH (SW846 9045D)	8.1		0.2	0.2	SU			05/04/23 18:51	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B131 Dup

Lab Sample ID: 500-233155-8

Date Collected: 05/01/23 10:10

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 87.4

Method: SW846 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	☼	05/02/23 17:48	05/03/23 17:33	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	05/02/23 17:48	05/03/23 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	05/02/23 17:48	05/03/23 17:33	1
4-Bromofluorobenzene (Surr)	89		75 - 131	05/02/23 17:48	05/03/23 17:33	1
Dibromofluoromethane	99		75 - 126	05/02/23 17:48	05/03/23 17:33	1
Toluene-d8 (Surr)	89		75 - 124	05/02/23 17:48	05/03/23 17:33	1

Method: SW846 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	0.027	mg/Kg	☼	05/11/23 07:45	05/12/23 20:12	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☼	05/11/23 07:45	05/12/23 20:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☼	05/11/23 07:45	05/12/23 20:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☼	05/11/23 07:45	05/12/23 20:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☼	05/11/23 07:45	05/12/23 20:12	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B131 Dup

Lab Sample ID: 500-233155-8

Date Collected: 05/01/23 10:10

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 87.4

Method: SW846 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	0.014	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
2,4-Dinitrophenol	<0.76		0.76	0.22	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
2-Methylnaphthalene	<0.076		0.076	0.0076	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.21	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
4-Chloroaniline	<0.76		0.76	0.40	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
4-Nitrophenol	<0.76		0.76	0.14	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Acenaphthene	<0.038		0.038	0.0077	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Acenaphthylene	<0.038		0.038	0.0064	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Anthracene	<0.038		0.038	0.0077	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Benzo[a]pyrene	<0.038		0.038	0.036	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Benzo[b]fluoranthene	<0.038		0.038	0.036	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Benzo[g,h,i]perylene	<0.038		0.038	0.0082	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Benzo[k]fluoranthene	<0.038		0.038	0.014	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Carbazole	<0.19		0.19	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Chrysene	<0.038		0.038	0.010	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Dibenz(a,h)anthracene	<0.038		0.038	0.038	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Dimethyl phthalate	<0.19		0.19	0.0082	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Di-n-octyl phthalate	<0.38		0.38	0.26	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Fluoranthene	<0.038		0.038	0.0088	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Fluorene	<0.038		0.038	0.011	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Hexachlorobenzene	<0.076		0.076	0.0072	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Hexachlorocyclopentadiene	<0.76		0.76	0.40	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B131 Dup

Lab Sample ID: 500-233155-8

Date Collected: 05/01/23 10:10

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 87.4

Method: SW846 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	0.037	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Isophorone	<0.19		0.19	0.019	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Naphthalene	<0.038		0.038	0.0068	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.0075	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Pentachlorophenol	<0.76		0.76	0.095	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Phenanthrene	<0.038		0.038	0.0082	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Phenol	<0.19		0.19	0.016	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Pyrene	<0.038		0.038	0.010	mg/Kg	✳	05/11/23 07:45	05/12/23 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		31 - 166				05/11/23 07:45	05/12/23 20:12	1
Phenol-d5	65		30 - 153				05/11/23 07:45	05/12/23 20:12	1
Nitrobenzene-d5 (Surr)	62		37 - 147				05/11/23 07:45	05/12/23 20:12	1
2-Fluorobiphenyl	67		43 - 145				05/11/23 07:45	05/12/23 20:12	1
2,4,6-Tribromophenol	65		31 - 143				05/11/23 07:45	05/12/23 20:12	1
Terphenyl-d14 (Surr)	85		42 - 157				05/11/23 07:45	05/12/23 20:12	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.1	0.21	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Arsenic	8.7		0.53	0.18	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Barium	24		0.53	0.061	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Beryllium	0.78		0.21	0.050	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Boron	12		2.7	0.25	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Cadmium	<0.11		0.11	0.019	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Calcium	69000	B	53	9.1	mg/Kg	✳	05/03/23 10:48	05/16/23 22:18	5
Chromium	15		0.53	0.26	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Cobalt	10		0.27	0.070	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Copper	21		0.53	0.15	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Iron	19000		11	5.6	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Lead	13		0.27	0.12	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Magnesium	26000		5.3	2.7	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Manganese	330		0.53	0.077	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Nickel	27		0.53	0.16	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Potassium	2200		27	9.5	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Selenium	<0.53		0.53	0.31	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Silver	0.24	J	0.27	0.069	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Sodium	1300		53	7.9	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Thallium	<0.53		0.53	0.27	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Vanadium	20		0.27	0.063	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1
Zinc	64		1.1	0.47	mg/Kg	✳	05/03/23 10:48	05/16/23 00:02	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/05/23 17:00	05/15/23 20:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/05/23 17:00	05/15/23 20:56	1
Chromium	<0.025		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 20:56	1
Iron	<0.40		0.40	0.20	mg/L		05/05/23 17:00	05/15/23 20:56	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B131 Dup

Lab Sample ID: 500-233155-8

Date Collected: 05/01/23 10:10

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 87.4

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.014		0.0075	0.0075	mg/L		05/05/23 17:00	05/15/23 20:56	1
Manganese	0.97		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 20:56	1
Nickel	<0.025		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 20:56	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.096		0.050	0.010	mg/L		05/05/23 17:01	05/16/23 01:29	1
Barium	0.48	J	0.50	0.050	mg/L		05/05/23 17:01	05/16/23 01:29	1
Beryllium	0.0073		0.0040	0.0040	mg/L		05/05/23 17:01	05/16/23 01:29	1
Boron	0.15		0.10	0.050	mg/L		05/05/23 17:01	05/16/23 01:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/05/23 17:01	05/16/23 01:29	1
Calcium	60		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 01:29	1
Chromium	0.14		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:29	1
Cobalt	0.051		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:29	1
Iron	170		0.40	0.20	mg/L		05/05/23 17:01	05/16/23 01:29	1
Lead	0.067		0.0075	0.0075	mg/L		05/05/23 17:01	05/16/23 01:29	1
Manganese	0.70		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:29	1
Nickel	0.19		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:29	1
Potassium	27		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 01:29	1
Selenium	<0.050		0.050	0.020	mg/L		05/05/23 17:01	05/16/23 01:29	1
Silver	<0.025		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 01:29	1
Zinc	0.56		0.50	0.020	mg/L		05/05/23 17:01	05/16/23 01:29	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/05/23 17:00	05/11/23 15:14	1

Method: SW846 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		05/05/23 17:01	05/08/23 14:13	1
Thallium	0.0046		0.0020	0.0020	mg/L		05/05/23 17:01	05/08/23 14:13	1

Method: SW846 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		05/15/23 11:40	05/16/23 11:14	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0093	mg/Kg	✱	05/11/23 16:00	05/12/23 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.24		0.24	0.12	mg/Kg	✱	05/05/23 08:24	05/05/23 10:46	1
pH (SW846 9045D)	8.2		0.2	0.2	SU			05/04/23 18:56	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B136

Lab Sample ID: 500-233155-15

Date Collected: 05/01/23 11:20

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 82.4

Method: SW846 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	☼	05/02/23 17:48	05/03/23 20:32	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Acetone	0.020		0.017	0.0075	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	☼	05/02/23 17:48	05/03/23 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	05/02/23 17:48	05/03/23 20:32	1
4-Bromofluorobenzene (Surr)	89		75 - 131	05/02/23 17:48	05/03/23 20:32	1
Dibromofluoromethane	101		75 - 126	05/02/23 17:48	05/03/23 20:32	1
Toluene-d8 (Surr)	88		75 - 124	05/02/23 17:48	05/03/23 20:32	1

Method: SW846 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	0.028	mg/Kg	☼	05/11/23 07:45	05/15/23 19:50	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☼	05/11/23 07:45	05/15/23 19:50	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☼	05/11/23 07:45	05/15/23 19:50	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	☼	05/11/23 07:45	05/15/23 19:50	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	☼	05/11/23 07:45	05/15/23 19:50	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B136

Lab Sample ID: 500-233155-15

Date Collected: 05/01/23 11:20

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 82.4

Method: SW846 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	0.015	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
2,4,6-Trichlorophenol	<0.39		0.39	0.013	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
2,4-Dimethylphenol	<0.39		0.39	0.089	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
2,4-Dinitrophenol	<0.80		0.80	0.23	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
2,4-Dinitrotoluene	<0.20		0.20	0.023	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
2-Methylnaphthalene	<0.080		0.080	0.0079	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
2-Nitrophenol	<0.39		0.39	0.027	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.22	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
4-Chloroaniline	<0.80		0.80	0.42	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
4-Nitrophenol	<0.80		0.80	0.15	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Acenaphthene	<0.039		0.039	0.0081	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Acenaphthylene	0.019	J	0.039	0.0067	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Anthracene	0.011	J	0.039	0.0081	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Benzo[a]anthracene	0.064		0.039	0.0084	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Benzo[a]pyrene	0.082		0.039	0.038	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Benzo[b]fluoranthene	0.098		0.039	0.038	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Benzo[g,h,i]perylene	0.055		0.039	0.0086	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Benzo[k]fluoranthene	0.038	J	0.039	0.015	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.16	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Carbazole	<0.20		0.20	0.016	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Chrysene	0.062		0.039	0.010	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Dimethyl phthalate	<0.20		0.20	0.0086	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Di-n-butyl phthalate	<0.20		0.20	0.013	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Di-n-octyl phthalate	<0.39		0.39	0.28	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Fluoranthene	0.084		0.039	0.0092	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Fluorene	<0.039		0.039	0.012	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Hexachlorobenzene	<0.080		0.080	0.0076	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Hexachlorocyclopentadiene	<0.80		0.80	0.42	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	✳	05/11/23 07:45	05/15/23 19:50	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B136

Lab Sample ID: 500-233155-15

Date Collected: 05/01/23 11:20

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 82.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.093		0.039	0.039	mg/Kg	☆	05/11/23 07:45	05/15/23 19:50	1
Isophorone	<0.20		0.20	0.020	mg/Kg	☆	05/11/23 07:45	05/15/23 19:50	1
Naphthalene	<0.039		0.039	0.0072	mg/Kg	☆	05/11/23 07:45	05/15/23 19:50	1
Nitrobenzene	<0.039		0.039	0.013	mg/Kg	☆	05/11/23 07:45	05/15/23 19:50	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.0078	mg/Kg	☆	05/11/23 07:45	05/15/23 19:50	1
N-Nitrosodiphenylamine	<0.20		0.20	0.024	mg/Kg	☆	05/11/23 07:45	05/15/23 19:50	1
Pentachlorophenol	<0.80		0.80	0.099	mg/Kg	☆	05/11/23 07:45	05/15/23 19:50	1
Phenanthrene	0.031	J	0.039	0.0086	mg/Kg	☆	05/11/23 07:45	05/15/23 19:50	1
Phenol	<0.20		0.20	0.017	mg/Kg	☆	05/11/23 07:45	05/15/23 19:50	1
Pyrene	0.087		0.039	0.011	mg/Kg	☆	05/11/23 07:45	05/15/23 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		31 - 166				05/11/23 07:45	05/15/23 19:50	1
Phenol-d5	53		30 - 153				05/11/23 07:45	05/15/23 19:50	1
Nitrobenzene-d5 (Surr)	54		37 - 147				05/11/23 07:45	05/15/23 19:50	1
2-Fluorobiphenyl	72		43 - 145				05/11/23 07:45	05/15/23 19:50	1
2,4,6-Tribromophenol	66		31 - 143				05/11/23 07:45	05/15/23 19:50	1
Terphenyl-d14 (Surr)	79		42 - 157				05/11/23 07:45	05/15/23 19:50	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.2	0.23	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Arsenic	11		0.58	0.20	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Barium	78		0.58	0.067	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Beryllium	0.85		0.23	0.055	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Boron	9.4		2.9	0.27	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Cadmium	0.034	J	0.12	0.021	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Calcium	53000	B	58	9.9	mg/Kg	☆	05/03/23 10:48	05/16/23 22:27	5
Chromium	16		0.58	0.29	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Cobalt	14		0.29	0.077	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Copper	21		0.58	0.16	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Iron	22000		12	6.1	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Lead	17		0.29	0.13	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Magnesium	20000		5.8	2.9	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Manganese	410		0.58	0.085	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Nickel	31		0.58	0.17	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Potassium	1900		29	10	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Selenium	<0.58		0.58	0.34	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Silver	0.32		0.29	0.075	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Sodium	1700		58	8.6	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Thallium	<0.58		0.58	0.29	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Vanadium	25		0.29	0.069	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1
Zinc	79		1.2	0.51	mg/Kg	☆	05/03/23 10:48	05/16/23 00:33	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/05/23 17:00	05/15/23 21:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/05/23 17:00	05/15/23 21:25	1
Chromium	<0.025		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 21:25	1
Iron	<0.40		0.40	0.20	mg/L		05/05/23 17:00	05/15/23 21:25	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B136

Lab Sample ID: 500-233155-15

Date Collected: 05/01/23 11:20

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 82.4

Method: SW846 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		05/05/23 17:00	05/15/23 21:25	1
Manganese	6.7		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 21:25	1
Nickel	0.025		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 21:25	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.050	0.010	mg/L		05/05/23 17:01	05/16/23 02:00	1
Barium	0.98		0.50	0.050	mg/L		05/05/23 17:01	05/16/23 02:00	1
Beryllium	0.0093		0.0040	0.0040	mg/L		05/05/23 17:01	05/16/23 02:00	1
Boron	0.14		0.10	0.050	mg/L		05/05/23 17:01	05/16/23 02:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/05/23 17:01	05/16/23 02:00	1
Calcium	39		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 02:00	1
Chromium	0.18		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:00	1
Cobalt	0.090		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:00	1
Iron	230		0.40	0.20	mg/L		05/05/23 17:01	05/16/23 02:00	1
Lead	0.27		0.0075	0.0075	mg/L		05/05/23 17:01	05/16/23 02:00	1
Manganese	2.7		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:00	1
Nickel	0.24		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:00	1
Potassium	21		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 02:00	1
Selenium	<0.050		0.050	0.020	mg/L		05/05/23 17:01	05/16/23 02:00	1
Silver	<0.025		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:00	1
Zinc	0.82		0.50	0.020	mg/L		05/05/23 17:01	05/16/23 02:00	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/05/23 17:00	05/11/23 15:32	1

Method: SW846 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		05/05/23 17:01	05/08/23 14:31	1
Thallium	0.0044		0.0020	0.0020	mg/L		05/05/23 17:01	05/08/23 14:31	1

Method: SW846 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		05/15/23 11:40	05/16/23 11:33	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.010	mg/Kg	✱	05/11/23 16:00	05/12/23 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26	0.13	mg/Kg	✱	05/05/23 08:09	05/05/23 11:40	1
pH (SW846 9045D)	8.5		0.2	0.2	SU			05/04/23 19:15	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B137

Lab Sample ID: 500-233155-16

Date Collected: 05/01/23 11:30

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 81.4

Method: SW846 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	✳	05/02/23 17:48	05/04/23 16:54	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
2-Butanone (MEK)	0.012		0.0049	0.0022	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0015	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Acetone	0.071		0.020	0.0086	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Chloroethane	<0.0049		0.0049	0.0015	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1
Xylenes, Total	<0.0040		0.0040	0.00063	mg/Kg	✳	05/02/23 17:48	05/04/23 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	05/02/23 17:48	05/04/23 16:54	1
4-Bromofluorobenzene (Surr)	93		75 - 131	05/02/23 17:48	05/04/23 16:54	1
Dibromofluoromethane	100		75 - 126	05/02/23 17:48	05/04/23 16:54	1
Toluene-d8 (Surr)	90		75 - 124	05/02/23 17:48	05/04/23 16:54	1

Method: SW846 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	0.029	mg/Kg	✳	05/11/23 07:45	05/13/23 00:11	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	✳	05/11/23 07:45	05/13/23 00:11	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	✳	05/11/23 07:45	05/13/23 00:11	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	✳	05/11/23 07:45	05/13/23 00:11	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.029	mg/Kg	✳	05/11/23 07:45	05/13/23 00:11	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B137

Lab Sample ID: 500-233155-16

Date Collected: 05/01/23 11:30

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 81.4

Method: SW846 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	0.015	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
2,4,6-Trichlorophenol	<0.40		0.40	0.014	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
2,4-Dichlorophenol	<0.40		0.40	0.014	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
2,4-Dimethylphenol	<0.40		0.40	0.089	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
2,4-Dinitrophenol	<0.81		0.81	0.23	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
2,4-Dinitrotoluene	<0.20		0.20	0.023	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
2,6-Dinitrotoluene	<0.20		0.20	0.014	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
2-Methylnaphthalene	<0.081		0.081	0.0080	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
2-Nitrophenol	<0.40		0.40	0.027	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
3-Nitroaniline	<0.40		0.40	0.018	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.23	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
4-Chloro-3-methylphenol	<0.40		0.40	0.016	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
4-Chloroaniline	<0.81		0.81	0.42	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
4-Nitroaniline	<0.40		0.40	0.030	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
4-Nitrophenol	<0.81		0.81	0.15	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Acenaphthene	<0.040		0.040	0.0081	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Acenaphthylene	0.019	J	0.040	0.0068	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Anthracene	0.014	J	0.040	0.0082	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Benzo[a]anthracene	0.065		0.040	0.0085	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Benzo[a]pyrene	0.059		0.040	0.039	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Benzo[b]fluoranthene	0.061		0.040	0.038	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Benzo[g,h,i]perylene	0.035	J	0.040	0.0087	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Benzo[k]fluoranthene	0.022	J	0.040	0.015	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.16	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Carbazole	<0.20		0.20	0.016	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Chrysene	0.064		0.040	0.011	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Dibenz(a,h)anthracene	<0.040		0.040	0.040	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Dimethyl phthalate	<0.20		0.20	0.0087	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Di-n-butyl phthalate	<0.20		0.20	0.013	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Di-n-octyl phthalate	<0.40		0.40	0.28	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Fluoranthene	0.071		0.040	0.0093	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Fluorene	<0.040		0.040	0.012	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Hexachlorobenzene	<0.081		0.081	0.0077	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Hexachlorobutadiene	<0.20		0.20	0.023	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Hexachlorocyclopentadiene	<0.81		0.81	0.42	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☼	05/11/23 07:45	05/13/23 00:11	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B137

Lab Sample ID: 500-233155-16

Date Collected: 05/01/23 11:30

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 81.4

Method: SW846 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	0.039	mg/Kg	✳	05/11/23 07:45	05/13/23 00:11	1
Isophorone	<0.20		0.20	0.021	mg/Kg	✳	05/11/23 07:45	05/13/23 00:11	1
Naphthalene	<0.040		0.040	0.0072	mg/Kg	✳	05/11/23 07:45	05/13/23 00:11	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	✳	05/11/23 07:45	05/13/23 00:11	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.0079	mg/Kg	✳	05/11/23 07:45	05/13/23 00:11	1
N-Nitrosodiphenylamine	<0.20		0.20	0.024	mg/Kg	✳	05/11/23 07:45	05/13/23 00:11	1
Pentachlorophenol	<0.81		0.81	0.10	mg/Kg	✳	05/11/23 07:45	05/13/23 00:11	1
Phenanthrene	0.016	J	0.040	0.0087	mg/Kg	✳	05/11/23 07:45	05/13/23 00:11	1
Phenol	<0.20		0.20	0.017	mg/Kg	✳	05/11/23 07:45	05/13/23 00:11	1
Pyrene	0.072		0.040	0.011	mg/Kg	✳	05/11/23 07:45	05/13/23 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		31 - 166	05/11/23 07:45	05/13/23 00:11	1
Phenol-d5	74		30 - 153	05/11/23 07:45	05/13/23 00:11	1
Nitrobenzene-d5 (Surr)	62		37 - 147	05/11/23 07:45	05/13/23 00:11	1
2-Fluorobiphenyl	77		43 - 145	05/11/23 07:45	05/13/23 00:11	1
2,4,6-Tribromophenol	75		31 - 143	05/11/23 07:45	05/13/23 00:11	1
Terphenyl-d14 (Surr)	88		42 - 157	05/11/23 07:45	05/13/23 00:11	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.53	J	1.2	0.23	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Arsenic	9.5		0.59	0.20	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Barium	86		0.59	0.067	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Beryllium	0.88		0.24	0.055	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Boron	5.9		3.0	0.28	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Cadmium	<0.12		0.12	0.021	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Calcium	15000	B	12	2.0	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Chromium	16		0.59	0.29	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Cobalt	11		0.30	0.077	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Copper	23		0.59	0.17	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Iron	21000		12	6.1	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Lead	20		0.30	0.14	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Magnesium	11000		5.9	2.9	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Manganese	480		0.59	0.086	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Nickel	27		0.59	0.17	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Potassium	1400		30	10	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Selenium	<0.59		0.59	0.35	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Silver	0.42		0.30	0.076	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Sodium	1700		59	8.7	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Thallium	<0.59		0.59	0.29	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Vanadium	28		0.30	0.070	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1
Zinc	91		1.2	0.52	mg/Kg	✳	05/03/23 10:48	05/16/23 00:36	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/05/23 17:00	05/15/23 21:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/05/23 17:00	05/15/23 21:28	1
Chromium	<0.025		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 21:28	1
Iron	0.79		0.40	0.20	mg/L		05/05/23 17:00	05/15/23 21:28	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B137

Lab Sample ID: 500-233155-16

Date Collected: 05/01/23 11:30

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 81.4

Method: SW846 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.013		0.0075	0.0075	mg/L		05/05/23 17:00	05/15/23 21:28	1
Manganese	6.0		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 21:28	1
Nickel	0.034		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 21:28	1

Method: SW846 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		05/05/23 17:01	05/16/23 02:03	1
Barium	1.0		0.50	0.050	mg/L		05/05/23 17:01	05/16/23 02:03	1
Beryllium	0.0088		0.0040	0.0040	mg/L		05/05/23 17:01	05/16/23 02:03	1
Boron	0.11		0.10	0.050	mg/L		05/05/23 17:01	05/16/23 02:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/05/23 17:01	05/16/23 02:03	1
Calcium	34		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 02:03	1
Chromium	0.17		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:03	1
Cobalt	0.072		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:03	1
Iron	200		0.40	0.20	mg/L		05/05/23 17:01	05/16/23 02:03	1
Lead	0.28		0.0075	0.0075	mg/L		05/05/23 17:01	05/16/23 02:03	1
Manganese	1.4		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:03	1
Nickel	0.17		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:03	1
Potassium	16		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 02:03	1
Selenium	<0.050		0.050	0.020	mg/L		05/05/23 17:01	05/16/23 02:03	1
Silver	<0.025		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:03	1
Zinc	0.84		0.50	0.020	mg/L		05/05/23 17:01	05/16/23 02:03	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/05/23 17:00	05/11/23 15:34	1

Method: SW846 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		05/05/23 17:01	05/08/23 14:33	1
Thallium	0.0026		0.0020	0.0020	mg/L		05/05/23 17:01	05/08/23 14:33	1

Method: SW846 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		05/15/23 11:40	05/16/23 11:35	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065		0.019	0.010	mg/Kg	✱	05/11/23 16:00	05/12/23 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.16	J	0.29	0.14	mg/Kg	✱	05/05/23 08:10	05/05/23 11:42	1
pH (SW846 9045D)	8.1		0.2	0.2	SU			05/04/23 19:18	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B138

Lab Sample ID: 500-233155-17

Date Collected: 05/01/23 11:40

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 85.3

Method: SW846 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	0.00057	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Acetone	<0.017		0.017	0.0074	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	✳	05/02/23 17:48	05/04/23 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	05/02/23 17:48	05/04/23 17:19	1
4-Bromofluorobenzene (Surr)	95		75 - 131	05/02/23 17:48	05/04/23 17:19	1
Dibromofluoromethane	100		75 - 126	05/02/23 17:48	05/04/23 17:19	1
Toluene-d8 (Surr)	91		75 - 124	05/02/23 17:48	05/04/23 17:19	1

Method: SW846 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	0.026	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B138

Lab Sample ID: 500-233155-17

Date Collected: 05/01/23 11:40

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.014	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
2,4-Dimethylphenol	<0.37		0.37	0.083	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
2,4-Dinitrophenol	<0.75		0.75	0.21	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
2-Methylnaphthalene	<0.075		0.075	0.0074	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.030	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.21	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.025	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
4-Chloro-3-methylphenol	<0.37		0.37	0.014	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
4-Chloroaniline	<0.75		0.75	0.39	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
4-Nitroaniline	<0.37		0.37	0.027	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
4-Nitrophenol	<0.75		0.75	0.14	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Acenaphthene	<0.037		0.037	0.0075	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Acenaphthylene	<0.037		0.037	0.0063	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Anthracene	<0.037		0.037	0.0076	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Benzo[a]anthracene	0.014	J	0.037	0.0079	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Benzo[b]fluoranthene	<0.037		0.037	0.035	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Benzo[g,h,i]perylene	0.014	J	0.037	0.0080	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Butyl benzyl phthalate	<0.19		0.19	0.018	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Carbazole	<0.19		0.19	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Chrysene	0.016	J	0.037	0.0098	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Dimethyl phthalate	<0.19		0.19	0.0081	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Fluoranthene	0.015	J	0.037	0.0086	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Fluorene	<0.037		0.037	0.011	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Hexachlorobenzene	<0.075		0.075	0.0071	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Hexachlorocyclopentadiene	<0.75		0.75	0.39	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B138

Lab Sample ID: 500-233155-17

Date Collected: 05/01/23 11:40

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.036	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Isophorone	<0.19		0.19	0.019	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Naphthalene	<0.037		0.037	0.0067	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.0073	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Pentachlorophenol	<0.75		0.75	0.093	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Phenanthrene	<0.037		0.037	0.0081	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Phenol	<0.19		0.19	0.016	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1
Pyrene	0.015	J	0.037	0.010	mg/Kg	✳	05/11/23 07:45	05/12/23 22:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		31 - 166	05/11/23 07:45	05/12/23 22:36	1
Phenol-d5	55		30 - 153	05/11/23 07:45	05/12/23 22:36	1
Nitrobenzene-d5 (Surr)	54		37 - 147	05/11/23 07:45	05/12/23 22:36	1
2-Fluorobiphenyl	60		43 - 145	05/11/23 07:45	05/12/23 22:36	1
2,4,6-Tribromophenol	59		31 - 143	05/11/23 07:45	05/12/23 22:36	1
Terphenyl-d14 (Surr)	76		42 - 157	05/11/23 07:45	05/12/23 22:36	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.1	0.22	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Arsenic	11		0.56	0.19	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Barium	44		0.56	0.064	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Beryllium	0.75		0.23	0.053	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Boron	12		2.8	0.26	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Cadmium	0.044	J	0.11	0.020	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Calcium	59000	B	56	9.6	mg/Kg	✳	05/03/23 10:48	05/16/23 22:31	5
Chromium	15		0.56	0.28	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Cobalt	11		0.28	0.074	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Copper	33		0.56	0.16	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Iron	20000		11	5.9	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Lead	21		0.28	0.13	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Magnesium	24000		5.6	2.8	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Manganese	370		0.56	0.082	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Nickel	33		0.56	0.16	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Potassium	2100		28	10	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Selenium	<0.56		0.56	0.33	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Silver	0.26	J	0.28	0.073	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Sodium	1100		56	8.4	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Thallium	<0.56		0.56	0.28	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Vanadium	19		0.28	0.067	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1
Zinc	85		1.1	0.50	mg/Kg	✳	05/03/23 10:48	05/16/23 00:40	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/05/23 17:00	05/15/23 21:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/05/23 17:00	05/15/23 21:58	1
Chromium	<0.025		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 21:58	1
Iron	<0.40		0.40	0.20	mg/L		05/05/23 17:00	05/15/23 21:58	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B138

Lab Sample ID: 500-233155-17

Date Collected: 05/01/23 11:40

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 85.3

Method: SW846 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		05/05/23 17:00	05/15/23 21:58	1
Manganese	3.6		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 21:58	1
Nickel	0.030		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 21:58	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13		0.050	0.010	mg/L		05/05/23 17:01	05/16/23 02:06	1
Barium	0.71		0.50	0.050	mg/L		05/05/23 17:01	05/16/23 02:06	1
Beryllium	0.0096		0.0040	0.0040	mg/L		05/05/23 17:01	05/16/23 02:06	1
Boron	0.21		0.10	0.050	mg/L		05/05/23 17:01	05/16/23 02:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/05/23 17:01	05/16/23 02:06	1
Calcium	57		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 02:06	1
Chromium	0.19		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:06	1
Cobalt	0.078		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:06	1
Iron	240		0.40	0.20	mg/L		05/05/23 17:01	05/16/23 02:06	1
Lead	0.15		0.0075	0.0075	mg/L		05/05/23 17:01	05/16/23 02:06	1
Manganese	0.96		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:06	1
Nickel	0.25		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:06	1
Potassium	35		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 02:06	1
Selenium	<0.050		0.050	0.020	mg/L		05/05/23 17:01	05/16/23 02:06	1
Silver	<0.025		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:06	1
Zinc	0.92		0.50	0.020	mg/L		05/05/23 17:01	05/16/23 02:06	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/05/23 17:00	05/11/23 15:53	1

Method: SW846 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		05/05/23 17:01	05/08/23 14:35	1
Thallium	0.0064		0.0020	0.0020	mg/L		05/05/23 17:01	05/08/23 14:35	1

Method: SW846 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		05/15/23 11:40	05/16/23 11:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0093	mg/Kg	✱	05/11/23 16:00	05/12/23 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28		0.28	0.14	mg/Kg	✱	05/05/23 08:11	05/05/23 11:43	1
pH (SW846 9045D)	9.0		0.2	0.2	SU			05/05/23 16:22	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B138 Dup

Lab Sample ID: 500-233155-18

Date Collected: 05/01/23 11:50

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 84.7

Method: SW846 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	☼	05/02/23 17:48	05/04/23 17:44	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Carbon disulfide	<0.0047		0.0047	0.00099	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Toluene	0.00070	J	0.0019	0.00048	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	05/02/23 17:48	05/04/23 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	05/02/23 17:48	05/04/23 17:44	1
4-Bromofluorobenzene (Surr)	102		75 - 131	05/02/23 17:48	05/04/23 17:44	1
Dibromofluoromethane	99		75 - 126	05/02/23 17:48	05/04/23 17:44	1
Toluene-d8 (Surr)	92		75 - 124	05/02/23 17:48	05/04/23 17:44	1

Method: SW846 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	0.028	mg/Kg	☼	05/11/23 07:45	05/12/23 22:59	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☼	05/11/23 07:45	05/12/23 22:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☼	05/11/23 07:45	05/12/23 22:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☼	05/11/23 07:45	05/12/23 22:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	☼	05/11/23 07:45	05/12/23 22:59	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B138 Dup

Lab Sample ID: 500-233155-18

Date Collected: 05/01/23 11:50

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 84.7

Method: SW846 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	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
2,4,6-Trichlorophenol	<0.39		0.39	0.013	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
2,4-Dimethylphenol	<0.39		0.39	0.088	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
2,4-Dinitrophenol	<0.79		0.79	0.23	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.022	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
2-Methylnaphthalene	<0.079		0.079	0.0078	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
2-Nitrophenol	<0.39		0.39	0.027	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.22	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
4-Chloroaniline	<0.79		0.79	0.41	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
4-Nitrophenol	<0.79		0.79	0.14	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Acenaphthene	0.0080	J	0.039	0.0080	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Acenaphthylene	0.0085	J	0.039	0.0066	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Anthracene	0.022	J	0.039	0.0080	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Benzo[a]anthracene	0.094		0.039	0.0083	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Benzo[a]pyrene	0.12		0.039	0.038	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Benzo[b]fluoranthene	0.16		0.039	0.037	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Benzo[g,h,i]perylene	0.10		0.039	0.0085	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Benzo[k]fluoranthene	0.056		0.039	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.15	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Butyl benzyl phthalate	0.032	J	0.20	0.019	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Carbazole	<0.20		0.20	0.015	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Chrysene	0.13		0.039	0.010	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Dimethyl phthalate	<0.20		0.20	0.0085	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Di-n-butyl phthalate	<0.20		0.20	0.012	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Di-n-octyl phthalate	<0.39		0.39	0.27	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Fluoranthene	0.21		0.039	0.0091	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Fluorene	<0.039		0.039	0.012	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Hexachlorobenzene	<0.079		0.079	0.0075	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Hexachlorocyclopentadiene	<0.79		0.79	0.41	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B138 Dup

Lab Sample ID: 500-233155-18

Date Collected: 05/01/23 11:50

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 84.7

Method: SW846 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		0.039	0.038	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Isophorone	<0.20		0.20	0.020	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Naphthalene	<0.039		0.039	0.0071	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.0077	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.023	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Pentachlorophenol	<0.79		0.79	0.098	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Phenanthrene	0.11		0.039	0.0085	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Phenol	<0.20		0.20	0.017	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Pyrene	0.19		0.039	0.011	mg/Kg	✳	05/11/23 07:45	05/12/23 22:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		31 - 166				05/11/23 07:45	05/12/23 22:59	1
Phenol-d5	66		30 - 153				05/11/23 07:45	05/12/23 22:59	1
Nitrobenzene-d5 (Surr)	67		37 - 147				05/11/23 07:45	05/12/23 22:59	1
2-Fluorobiphenyl	76		43 - 145				05/11/23 07:45	05/12/23 22:59	1
2,4,6-Tribromophenol	67		31 - 143				05/11/23 07:45	05/12/23 22:59	1
Terphenyl-d14 (Surr)	87		42 - 157				05/11/23 07:45	05/12/23 22:59	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.1	0.22	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Arsenic	8.0		0.56	0.19	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Barium	58		0.56	0.064	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Beryllium	0.76		0.22	0.052	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Boron	12		2.8	0.26	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Cadmium	0.056	J	0.11	0.020	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Calcium	65000	B	56	9.4	mg/Kg	✳	05/03/23 10:48	05/16/23 22:34	5
Chromium	17		0.56	0.28	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Cobalt	8.4		0.28	0.073	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Copper	21		0.56	0.16	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Iron	19000		11	5.8	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Lead	33		0.28	0.13	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Magnesium	26000		5.6	2.8	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Manganese	290		0.56	0.081	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Nickel	22		0.56	0.16	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Potassium	2200		28	9.9	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Selenium	<0.56		0.56	0.33	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Silver	0.31		0.28	0.072	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Sodium	1600		56	8.2	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Thallium	<0.56		0.56	0.28	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Vanadium	21		0.28	0.066	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1
Zinc	89		1.1	0.49	mg/Kg	✳	05/03/23 10:48	05/16/23 00:43	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/05/23 17:00	05/15/23 22:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/05/23 17:00	05/15/23 22:01	1
Chromium	<0.025		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 22:01	1
Iron	<0.40		0.40	0.20	mg/L		05/05/23 17:00	05/15/23 22:01	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B138 Dup

Lab Sample ID: 500-233155-18

Date Collected: 05/01/23 11:50

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 84.7

Method: SW846 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		05/05/23 17:00	05/15/23 22:01	1
Manganese	3.6		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 22:01	1
Nickel	0.026		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 22:01	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12		0.050	0.010	mg/L		05/05/23 17:01	05/16/23 02:10	1
Barium	0.72		0.50	0.050	mg/L		05/05/23 17:01	05/16/23 02:10	1
Beryllium	0.0094		0.0040	0.0040	mg/L		05/05/23 17:01	05/16/23 02:10	1
Boron	0.22		0.10	0.050	mg/L		05/05/23 17:01	05/16/23 02:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/05/23 17:01	05/16/23 02:10	1
Calcium	55		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 02:10	1
Chromium	0.19		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:10	1
Cobalt	0.078		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:10	1
Iron	230		0.40	0.20	mg/L		05/05/23 17:01	05/16/23 02:10	1
Lead	0.15		0.0075	0.0075	mg/L		05/05/23 17:01	05/16/23 02:10	1
Manganese	0.96		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:10	1
Nickel	0.25		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:10	1
Potassium	35		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 02:10	1
Selenium	<0.050		0.050	0.020	mg/L		05/05/23 17:01	05/16/23 02:10	1
Silver	<0.025		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:10	1
Zinc	0.92		0.50	0.020	mg/L		05/05/23 17:01	05/16/23 02:10	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/05/23 17:00	05/11/23 15:55	1

Method: SW846 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		05/05/23 17:01	05/08/23 14:37	1
Thallium	0.0064		0.0020	0.0020	mg/L		05/05/23 17:01	05/08/23 14:37	1

Method: SW846 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		05/15/23 11:40	05/16/23 11:39	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0098	mg/Kg	✱	05/11/23 16:00	05/12/23 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.15	J	0.28	0.14	mg/Kg	✱	05/05/23 08:12	05/05/23 11:45	1
pH (SW846 9045D)	9.0		0.2	0.2	SU			05/05/23 16:27	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B139

Lab Sample ID: 500-233155-19

Date Collected: 05/01/23 12:00

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 85.8

Method: SW846 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	☆	05/02/23 17:48	05/04/23 18:10	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Acetone	<0.018		0.018	0.0080	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☆	05/02/23 17:48	05/04/23 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	05/02/23 17:48	05/04/23 18:10	1
4-Bromofluorobenzene (Surr)	96		75 - 131	05/02/23 17:48	05/04/23 18:10	1
Dibromofluoromethane	100		75 - 126	05/02/23 17:48	05/04/23 18:10	1
Toluene-d8 (Surr)	92		75 - 124	05/02/23 17:48	05/04/23 18:10	1

Method: SW846 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	0.026	mg/Kg	☆	05/11/23 07:45	05/12/23 23:23	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☆	05/11/23 07:45	05/12/23 23:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☆	05/11/23 07:45	05/12/23 23:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☆	05/11/23 07:45	05/12/23 23:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	05/11/23 07:45	05/12/23 23:23	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B139

Lab Sample ID: 500-233155-19

Date Collected: 05/01/23 12:00

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 85.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.014	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
2,4,6-Trichlorophenol	<0.37		0.37	0.013	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
2,4-Dichlorophenol	<0.37		0.37	0.013	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
2,4-Dimethylphenol	<0.37		0.37	0.083	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
2,4-Dinitrophenol	<0.75		0.75	0.21	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.021	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
2-Methylnaphthalene	<0.075		0.075	0.0074	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
2-Nitrophenol	<0.37		0.37	0.025	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
3 & 4 Methylphenol	<0.19		0.19	0.027	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.030	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
3-Nitroaniline	<0.37		0.37	0.017	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.21	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.025	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
4-Chloro-3-methylphenol	<0.37		0.37	0.014	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
4-Chloroaniline	<0.75		0.75	0.39	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.048	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
4-Nitroaniline	<0.37		0.37	0.027	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
4-Nitrophenol	<0.75		0.75	0.14	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Acenaphthene	<0.037		0.037	0.0075	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Acenaphthylene	<0.037		0.037	0.0063	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Anthracene	<0.037		0.037	0.0076	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Benzo[a]pyrene	<0.037		0.037	0.036	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Benzo[b]fluoranthene	<0.037		0.037	0.035	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Benzo[g,h,i]perylene	<0.037		0.037	0.0080	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Benzo[k]fluoranthene	<0.037		0.037	0.014	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.017	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.14	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Butyl benzyl phthalate	<0.19		0.19	0.018	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Carbazole	<0.19		0.19	0.015	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Chrysene	<0.037		0.037	0.0098	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Dibenz(a,h)anthracene	<0.037		0.037	0.037	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Dibenzofuran	<0.19		0.19	0.013	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Dimethyl phthalate	<0.19		0.19	0.0080	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Di-n-octyl phthalate	<0.37		0.37	0.26	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Fluoranthene	<0.037		0.037	0.0086	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Fluorene	<0.037		0.037	0.011	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Hexachlorobenzene	<0.075		0.075	0.0071	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Hexachlorocyclopentadiene	<0.75		0.75	0.39	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☼	05/11/23 07:45	05/12/23 23:23	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B139

Lab Sample ID: 500-233155-19

Date Collected: 05/01/23 12:00

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 85.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.036	mg/Kg	✳	05/11/23 07:45	05/12/23 23:23	1
Isophorone	<0.19		0.19	0.019	mg/Kg	✳	05/11/23 07:45	05/12/23 23:23	1
Naphthalene	<0.037		0.037	0.0067	mg/Kg	✳	05/11/23 07:45	05/12/23 23:23	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	✳	05/11/23 07:45	05/12/23 23:23	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.0073	mg/Kg	✳	05/11/23 07:45	05/12/23 23:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.022	mg/Kg	✳	05/11/23 07:45	05/12/23 23:23	1
Pentachlorophenol	<0.75		0.75	0.093	mg/Kg	✳	05/11/23 07:45	05/12/23 23:23	1
Phenanthrene	<0.037		0.037	0.0080	mg/Kg	✳	05/11/23 07:45	05/12/23 23:23	1
Phenol	<0.19		0.19	0.016	mg/Kg	✳	05/11/23 07:45	05/12/23 23:23	1
Pyrene	0.026	J	0.037	0.010	mg/Kg	✳	05/11/23 07:45	05/12/23 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		31 - 166	05/11/23 07:45	05/12/23 23:23	1
Phenol-d5	59		30 - 153	05/11/23 07:45	05/12/23 23:23	1
Nitrobenzene-d5 (Surr)	56		37 - 147	05/11/23 07:45	05/12/23 23:23	1
2-Fluorobiphenyl	67		43 - 145	05/11/23 07:45	05/12/23 23:23	1
2,4,6-Tribromophenol	67		31 - 143	05/11/23 07:45	05/12/23 23:23	1
Terphenyl-d14 (Surr)	86		42 - 157	05/11/23 07:45	05/12/23 23:23	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.1	0.22	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Arsenic	7.8		0.55	0.19	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Barium	39		0.55	0.063	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Beryllium	0.71		0.22	0.052	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Boron	12		2.8	0.26	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Cadmium	0.091	J	0.11	0.020	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Calcium	71000	B	55	9.4	mg/Kg	✳	05/03/23 10:48	05/16/23 22:37	5
Chromium	14		0.55	0.27	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Cobalt	9.9		0.28	0.072	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Copper	21		0.55	0.15	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Iron	18000		11	5.7	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Lead	15		0.28	0.13	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Magnesium	27000		5.5	2.7	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Manganese	290		0.55	0.080	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Nickel	26		0.55	0.16	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Potassium	2200		28	9.8	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Selenium	<0.55		0.55	0.33	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Silver	0.23	J	0.28	0.071	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Sodium	1500		55	8.2	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Thallium	<0.55		0.55	0.28	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Vanadium	19		0.28	0.065	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1
Zinc	70		1.1	0.49	mg/Kg	✳	05/03/23 10:48	05/16/23 00:47	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/05/23 17:00	05/15/23 22:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/05/23 17:00	05/15/23 22:05	1
Chromium	<0.025		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 22:05	1
Iron	<0.40		0.40	0.20	mg/L		05/05/23 17:00	05/15/23 22:05	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

Client Sample ID: 2233V3-1-B139

Lab Sample ID: 500-233155-19

Date Collected: 05/01/23 12:00

Matrix: Solid

Date Received: 05/02/23 13:40

Percent Solids: 85.8

Method: SW846 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		05/05/23 17:00	05/15/23 22:05	1
Manganese	5.1		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 22:05	1
Nickel	0.052		0.025	0.010	mg/L		05/05/23 17:00	05/15/23 22:05	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.050	0.010	mg/L		05/05/23 17:01	05/16/23 02:20	1
Barium	0.59		0.50	0.050	mg/L		05/05/23 17:01	05/16/23 02:20	1
Beryllium	0.0086		0.0040	0.0040	mg/L		05/05/23 17:01	05/16/23 02:20	1
Boron	0.22		0.10	0.050	mg/L		05/05/23 17:01	05/16/23 02:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/05/23 17:01	05/16/23 02:20	1
Calcium	68		2.5	0.50	mg/L		05/05/23 17:01	05/16/23 02:20	1
Chromium	0.17		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:20	1
Cobalt	0.077		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:20	1
Iron	210		0.40	0.20	mg/L		05/05/23 17:01	05/16/23 02:20	1
Lead	0.12		0.0075	0.0075	mg/L		05/05/23 17:01	05/16/23 02:20	1
Manganese	0.92		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:20	1
Nickel	0.26		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:20	1
Potassium	36	F1	2.5	0.50	mg/L		05/05/23 17:01	05/16/23 02:20	1
Selenium	<0.050		0.050	0.020	mg/L		05/05/23 17:01	05/16/23 02:20	1
Silver	<0.025		0.025	0.010	mg/L		05/05/23 17:01	05/16/23 02:20	1
Zinc	0.71		0.50	0.020	mg/L		05/05/23 17:01	05/16/23 02:20	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/05/23 17:00	05/11/23 15:57	1

Method: SW846 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		05/05/23 17:01	05/08/23 14:44	1
Thallium	0.0045		0.0020	0.0020	mg/L		05/05/23 17:01	05/08/23 14:44	1

Method: SW846 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		05/15/23 11:40	05/16/23 11:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0095	mg/Kg	✱	05/11/23 16:00	05/12/23 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.13	mg/Kg	✱	05/05/23 08:13	05/05/23 11:46	1
pH (SW846 9045D)	9.1		0.2	0.2	SU			05/05/23 16:30	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

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.
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.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
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
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.
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

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Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233155-1

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 - AE8-010

Job ID: 500-233155-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-23 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



CHAIN OF CUSTODY RECORD

Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com		Laboratory Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email Jodie.Bracken@ET.EurofinsUS.com	Project Name <u>AES-010A</u> Project No <u>PTB/WO#: 195-002/010A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>J. Weisbrodt</u>	COC No <u>1</u> of <u>2</u> Lab Job No.: <u>500-233155</u> Sample Temp: <u>22-24.50-7.69</u>
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Special Instructions:
 See Table 2 for complete parameter lists and minimum reporting limits
 * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal
 ** If SPLP result exceeds Class I Standard run TCLP for that specific parameter
 *** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide

ANALYSES																			
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization			
1	2233V3-1-B127	5/1/23	0900	J	X	X					X	X	X	X	X				
2	2233V3-1-B128		0910																
3	2233V3-1-B129		0920																
4	2233V3-1-B130-1		0930																
5	2233V3-1-B130-2		0940																
6	2233V3-1-B130-3		0950																-4 Not Sampled
7	2233V3-1-B131		1000																
8	2233V3-1-B131 DUP		1010																
9	2233V3-1-B132		1020																
10	2233V3-1-B133		1030																
11	2233V3-1-B134	↓	1040	↓	↓	↓					↓	↓	↓	↓	↓				

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

					Comments														

Relinquished by <u>Jodie Bracken</u>	Date/Time	Received by <u>[Signature]</u>	Date/Time <u>5/2/23 1125</u>
Relinquished by <u>[Signature] EETA s/2</u>	Date/Time <u>5/2/23</u>	Received by <u>[Signature]</u>	Date/Time <u>5/2/23 1340</u>
Relinquished by	Date/Time	Received by	Date/Time

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name <u>AE8-010A</u>	COC No <u>2</u> of <u>2</u>
Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email <u>Jodie.Bracken@ET EurofinsUS.com</u>	Project No <u>PTB/WO#:195-002/010A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Lab Job No.: <u>500-233155</u>
Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3) run TCLP for that specific RCRA metal ** If SPLP result exceeds Class I Standard run TCLP for that specific parameter *** If total cyanide exceeds MAC run ASTM D3987 (Neutral Leach) cyanide		Sample Temp:	
		Sampler: <u>J. Weisbrodt</u>	

Special Instructions: See Table 2 for complete parameter lists and minimum reporting limits * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3) run TCLP for that specific RCRA metal ** If SPLP result exceeds Class I Standard run TCLP for that specific parameter *** If total cyanide exceeds MAC run ASTM D3987 (Neutral Leach) cyanide					ANALYSES										Matrix Key:		
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	Comments
12	2233V3-1-B135-1	5/11/23	1050	J	X	X					X	X	X	X	X		
13	2233V3-1-B135-2		1100														
14	2233V3-1-B135-3		1110														-4 Not Sampled
15	2233V3-1-B136		1120														
16	2233V3-1-B137		1130	Y	Y	Y					Y	Y	Y	Y	Y		
17	2233V3-1-B138		1140														
18	2233V3-1-B138 DUP		1150														
19	2233V3-1-B139		1200	↓	↓	↓					↓	↓	↓	↓	↓		
20	Trip Blank #7			S	X												

Relinquished by <u>Jodie Bracken</u>	Date/Time	Received by <u>R. J. EETA</u>	Date/Time <u>5/12</u>
Relinquished by <u>R. J. EETA</u>	Date/Time <u>5/12 1340</u>	Received by <u>Jodie Bracken</u>	Date/Time <u>5/12/23 1340</u>
Relinquished by	Date/Time	Received by	Date/Time

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Ms. Colleen Grey
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Generated 5/23/2023 6:05:34 PM

JOB DESCRIPTION

IDOT - AE8-010

JOB NUMBER

500-233325-1

Eurofins Chicago

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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5/23/2023 6:05:34 PM

Authorized for release by
Jodie Bracken, Project Management Assistant II
Jodie.Bracken@et.eurofinsus.com
(708)534-5200

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B117

Lab Sample ID: 500-233325-1

Date Collected: 05/03/23 09:00

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 81.1

Method: SW846 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	☆	05/04/23 17:50	05/08/23 19:03	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Acetone	<0.020		0.020	0.0087	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☆	05/04/23 17:50	05/08/23 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	05/04/23 17:50	05/08/23 19:03	1
4-Bromofluorobenzene (Surr)	97		75 - 131	05/04/23 17:50	05/08/23 19:03	1
Dibromofluoromethane	98		75 - 126	05/04/23 17:50	05/08/23 19:03	1
Toluene-d8 (Surr)	91		75 - 124	05/04/23 17:50	05/08/23 19:03	1

Method: SW846 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	0.029	mg/Kg	☆	05/16/23 07:28	05/17/23 16:17	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☆	05/16/23 07:28	05/17/23 16:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	05/16/23 07:28	05/17/23 16:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	☆	05/16/23 07:28	05/17/23 16:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.029	mg/Kg	☆	05/16/23 07:28	05/17/23 16:17	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B117

Lab Sample ID: 500-233325-1

Date Collected: 05/03/23 09:00

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 81.1

Method: SW846 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	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
2,4,6-Trichlorophenol	<0.40		0.40	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
2,4-Dichlorophenol	<0.40		0.40	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
2,4-Dimethylphenol	<0.40		0.40	0.091	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
2,4-Dinitrophenol	<0.82		0.82	0.23	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.023	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
2-Methylnaphthalene	<0.082		0.082	0.0081	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
2-Nitroaniline	<0.20		0.20	0.022	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
2-Nitrophenol	<0.40		0.40	0.027	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
3 & 4 Methylphenol	<0.20		0.20	0.030	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
3-Nitroaniline	<0.40		0.40	0.018	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.23	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.028	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
4-Chloro-3-methylphenol	<0.40		0.40	0.016	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
4-Chloroaniline	<0.82		0.82	0.42	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
4-Nitroaniline	<0.40		0.40	0.030	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
4-Nitrophenol	<0.82		0.82	0.15	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Acenaphthene	<0.040		0.040	0.0082	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Acenaphthylene	<0.040		0.040	0.0069	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Anthracene	0.010	J	0.040	0.0083	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Benzo[a]anthracene	0.083		0.040	0.0086	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Benzo[a]pyrene	0.13		0.040	0.039	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Benzo[b]fluoranthene	0.15		0.040	0.039	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Benzo[g,h,i]perylene	0.13		0.040	0.0088	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Benzo[k]fluoranthene	0.054		0.040	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.019	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.16	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Carbazole	<0.20		0.20	0.016	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Chrysene	0.076		0.040	0.011	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Dibenz(a,h)anthracene	<0.040		0.040	0.040	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Diethyl phthalate	<0.20		0.20	0.019	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Dimethyl phthalate	<0.20		0.20	0.0088	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Di-n-butyl phthalate	<0.20		0.20	0.013	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Di-n-octyl phthalate	<0.40		0.40	0.28	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Fluoranthene	0.10		0.040	0.0094	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Fluorene	<0.040		0.040	0.012	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Hexachlorobenzene	<0.082		0.082	0.0078	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Hexachlorobutadiene	<0.20		0.20	0.023	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Hexachlorocyclopentadiene	<0.82	*-	0.82	0.43	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1
Hexachloroethane	<0.20	*-	0.20	0.020	mg/Kg	☼	05/16/23 07:28	05/17/23 16:17	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B117

Lab Sample ID: 500-233325-1

Date Collected: 05/03/23 09:00

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 81.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.12		0.040	0.039	mg/Kg	✱	05/16/23 07:28	05/17/23 16:17	1
Isophorone	<0.20		0.20	0.021	mg/Kg	✱	05/16/23 07:28	05/17/23 16:17	1
Naphthalene	<0.040		0.040	0.0073	mg/Kg	✱	05/16/23 07:28	05/17/23 16:17	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	✱	05/16/23 07:28	05/17/23 16:17	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.0080	mg/Kg	✱	05/16/23 07:28	05/17/23 16:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.024	mg/Kg	✱	05/16/23 07:28	05/17/23 16:17	1
Pentachlorophenol	<0.82		0.82	0.10	mg/Kg	✱	05/16/23 07:28	05/17/23 16:17	1
Phenanthrene	0.039	J	0.040	0.0088	mg/Kg	✱	05/16/23 07:28	05/17/23 16:17	1
Phenol	<0.20		0.20	0.018	mg/Kg	✱	05/16/23 07:28	05/17/23 16:17	1
Pyrene	0.099		0.040	0.011	mg/Kg	✱	05/16/23 07:28	05/17/23 16:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		31 - 166				05/16/23 07:28	05/17/23 16:17	1
Phenol-d5	76		30 - 153				05/16/23 07:28	05/17/23 16:17	1
Nitrobenzene-d5 (Surr)	80		37 - 147				05/16/23 07:28	05/17/23 16:17	1
2-Fluorobiphenyl	89		43 - 145				05/16/23 07:28	05/17/23 16:17	1
2,4,6-Tribromophenol	86		31 - 143				05/16/23 07:28	05/17/23 16:17	1
Terphenyl-d14 (Surr)	92		42 - 157				05/16/23 07:28	05/17/23 16:17	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.2	0.24	mg/Kg	✱	05/09/23 10:25	05/19/23 17:35	1
Arsenic	6.9		0.61	0.21	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Barium	120		0.61	0.069	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Beryllium	0.86		0.24	0.057	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Boron	3.9		3.0	0.28	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Cadmium	0.16	B	0.12	0.022	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Calcium	3500		12	2.1	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Chromium	18		0.61	0.30	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Cobalt	9.9		0.30	0.080	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Copper	16		0.61	0.17	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Iron	20000		12	6.3	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Lead	19		0.30	0.14	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Magnesium	3200		6.1	3.0	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Manganese	540		0.61	0.088	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Nickel	19		0.61	0.18	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Potassium	1300		30	11	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Selenium	0.46	J	0.61	0.36	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Silver	0.32		0.30	0.078	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Sodium	820		61	9.0	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Thallium	<0.61		0.61	0.30	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Vanadium	31		0.30	0.072	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1
Zinc	65		1.2	0.53	mg/Kg	✱	05/09/23 10:25	05/19/23 01:57	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/10/23 17:30	05/17/23 01:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/23 17:30	05/17/23 01:27	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/23 17:30	05/17/23 01:27	1
Iron	<0.40		0.40	0.20	mg/L		05/10/23 17:30	05/17/23 01:27	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B117

Lab Sample ID: 500-233325-1

Date Collected: 05/03/23 09:00

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 81.1

Method: SW846 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		05/10/23 17:30	05/17/23 01:27	1
Manganese	0.39		0.025	0.010	mg/L		05/10/23 17:30	05/17/23 01:27	1
Nickel	<0.025		0.025	0.010	mg/L		05/10/23 17:30	05/17/23 01:27	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.062		0.050	0.010	mg/L		05/10/23 17:31	05/22/23 21:24	1
Barium	1.0		0.50	0.050	mg/L		05/10/23 17:31	05/22/23 21:24	1
Beryllium	0.0096		0.0040	0.0040	mg/L		05/10/23 17:31	05/22/23 21:24	1
Boron	0.083	J	0.10	0.050	mg/L		05/10/23 17:31	05/22/23 21:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/23 17:31	05/22/23 21:24	1
Calcium	38		2.5	0.50	mg/L		05/10/23 17:31	05/22/23 21:24	1
Chromium	0.19		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:24	1
Cobalt	0.037		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:24	1
Iron	220		0.40	0.20	mg/L		05/10/23 17:31	05/22/23 21:24	1
Lead	0.12		0.0075	0.0075	mg/L		05/10/23 17:31	05/22/23 21:24	1
Manganese	1.2		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:24	1
Nickel	0.17		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:24	1
Potassium	18		2.5	0.50	mg/L		05/10/23 17:31	05/22/23 21:24	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/23 17:31	05/22/23 21:24	1
Silver	<0.025		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:24	1
Zinc	0.67		0.50	0.020	mg/L		05/10/23 17:31	05/22/23 21:24	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/23 17:30	05/15/23 19:07	1

Method: SW846 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		05/10/23 17:31	05/11/23 18:07	1
Thallium	0.0028		0.0020	0.0020	mg/L		05/10/23 17:31	05/11/23 18:07	1

Method: SW846 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		05/12/23 10:50	05/15/23 10:02	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.010	mg/Kg	✱	05/17/23 15:15	05/18/23 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.26		0.26	0.13	mg/Kg	✱	05/10/23 08:09	05/10/23 10:10	1
pH (SW846 9045D)	8.5		0.2	0.2	SU			05/09/23 18:55	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B118

Lab Sample ID: 500-233325-2

Date Collected: 05/03/23 09:20

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 80.2

Method: SW846 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	✳	05/04/23 17:50	05/09/23 18:13	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Acetone	0.013	J	0.018	0.0078	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Toluene	0.00066	J	0.0018	0.00045	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	✳	05/04/23 17:50	05/09/23 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	05/04/23 17:50	05/09/23 18:13	1
4-Bromofluorobenzene (Surr)	101		75 - 131	05/04/23 17:50	05/09/23 18:13	1
Dibromofluoromethane	99		75 - 126	05/04/23 17:50	05/09/23 18:13	1
Toluene-d8 (Surr)	91		75 - 124	05/04/23 17:50	05/09/23 18:13	1

Method: SW846 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	0.029	mg/Kg	✳	05/16/23 07:28	05/17/23 16:42	1
1,2-Dichlorobenzene	<0.20	F1	0.20	0.016	mg/Kg	✳	05/16/23 07:28	05/17/23 16:42	1
1,3-Dichlorobenzene	<0.20	F1	0.20	0.018	mg/Kg	✳	05/16/23 07:28	05/17/23 16:42	1
1,4-Dichlorobenzene	<0.20	F1	0.20	0.019	mg/Kg	✳	05/16/23 07:28	05/17/23 16:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.029	mg/Kg	✳	05/16/23 07:28	05/17/23 16:42	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B118

Lab Sample ID: 500-233325-2

Date Collected: 05/03/23 09:20

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 80.2

Method: SW846 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	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
2,4,6-Trichlorophenol	<0.40		0.40	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
2,4-Dichlorophenol	<0.40		0.40	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
2,4-Dimethylphenol	<0.40		0.40	0.090	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
2,4-Dinitrophenol	<0.81		0.81	0.23	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.023	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
2-Methylnaphthalene	<0.081		0.081	0.0080	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
2-Nitroaniline	<0.20		0.20	0.022	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
2-Nitrophenol	<0.40		0.40	0.027	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
3-Nitroaniline	<0.40		0.40	0.018	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.23	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
4-Chloro-3-methylphenol	<0.40		0.40	0.016	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
4-Chloroaniline	<0.81		0.81	0.42	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
4-Nitroaniline	<0.40		0.40	0.030	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
4-Nitrophenol	<0.81		0.81	0.15	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Acenaphthene	<0.040		0.040	0.0082	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Acenaphthylene	<0.040		0.040	0.0068	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Anthracene	<0.040		0.040	0.0082	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Benzo[a]pyrene	<0.040		0.040	0.039	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Benzo[b]fluoranthene	<0.040		0.040	0.038	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Benzo[g,h,i]perylene	<0.040		0.040	0.0087	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Benzo[k]fluoranthene	<0.040		0.040	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.16	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Carbazole	<0.20		0.20	0.016	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Dibenz(a,h)anthracene	<0.040		0.040	0.040	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Dimethyl phthalate	<0.20		0.20	0.0087	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Di-n-butyl phthalate	<0.20		0.20	0.013	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Di-n-octyl phthalate	<0.40		0.40	0.28	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Fluoranthene	0.011	J	0.040	0.0093	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Fluorene	<0.040		0.040	0.012	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Hexachlorobenzene	<0.081		0.081	0.0077	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Hexachlorobutadiene	<0.20		0.20	0.023	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Hexachlorocyclopentadiene	<0.81	F1 *-	0.81	0.43	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1
Hexachloroethane	<0.20	F1 *-	0.20	0.020	mg/Kg	☼	05/16/23 07:28	05/17/23 16:42	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B118

Lab Sample ID: 500-233325-2

Date Collected: 05/03/23 09:20

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 80.2

Method: SW846 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	0.039	mg/Kg	✳	05/16/23 07:28	05/17/23 16:42	1
Isophorone	<0.20		0.20	0.021	mg/Kg	✳	05/16/23 07:28	05/17/23 16:42	1
Naphthalene	<0.040		0.040	0.0073	mg/Kg	✳	05/16/23 07:28	05/17/23 16:42	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	✳	05/16/23 07:28	05/17/23 16:42	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.0079	mg/Kg	✳	05/16/23 07:28	05/17/23 16:42	1
N-Nitrosodiphenylamine	<0.20		0.20	0.024	mg/Kg	✳	05/16/23 07:28	05/17/23 16:42	1
Pentachlorophenol	<0.81		0.81	0.10	mg/Kg	✳	05/16/23 07:28	05/17/23 16:42	1
Phenanthrene	<0.040		0.040	0.0087	mg/Kg	✳	05/16/23 07:28	05/17/23 16:42	1
Phenol	<0.20		0.20	0.017	mg/Kg	✳	05/16/23 07:28	05/17/23 16:42	1
Pyrene	0.011	J	0.040	0.011	mg/Kg	✳	05/16/23 07:28	05/17/23 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		31 - 166	05/16/23 07:28	05/17/23 16:42	1
Phenol-d5	71		30 - 153	05/16/23 07:28	05/17/23 16:42	1
Nitrobenzene-d5 (Surr)	76		37 - 147	05/16/23 07:28	05/17/23 16:42	1
2-Fluorobiphenyl	84		43 - 145	05/16/23 07:28	05/17/23 16:42	1
2,4,6-Tribromophenol	83		31 - 143	05/16/23 07:28	05/17/23 16:42	1
Terphenyl-d14 (Surr)	91		42 - 157	05/16/23 07:28	05/17/23 16:42	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.2	0.23	mg/Kg	✳	05/09/23 10:25	05/19/23 17:39	1
Arsenic	8.4		0.59	0.20	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Barium	90		0.59	0.067	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Beryllium	0.85		0.24	0.055	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Boron	6.7		3.0	0.28	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Cadmium	0.23	B	0.12	0.021	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Calcium	26000		12	2.0	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Chromium	16		0.59	0.29	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Cobalt	12		0.30	0.077	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Copper	20		0.59	0.17	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Iron	21000		12	6.1	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Lead	19		0.30	0.14	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Magnesium	16000		5.9	2.9	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Manganese	530		0.59	0.086	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Nickel	27		0.59	0.17	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Potassium	1700		30	10	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Selenium	<0.59		0.59	0.35	mg/Kg	✳	05/09/23 10:25	05/19/23 17:39	1
Silver	0.27	J	0.30	0.076	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Sodium	690		59	8.7	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Thallium	<0.59		0.59	0.29	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Vanadium	27		0.30	0.070	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1
Zinc	70		1.2	0.52	mg/Kg	✳	05/09/23 10:25	05/19/23 02:08	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/10/23 17:30	05/17/23 01:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/23 17:30	05/17/23 01:30	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/23 17:30	05/17/23 01:30	1
Iron	<0.40		0.40	0.20	mg/L		05/10/23 17:30	05/17/23 01:30	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B118

Lab Sample ID: 500-233325-2

Date Collected: 05/03/23 09:20

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 80.2

Method: SW846 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		05/10/23 17:30	05/17/23 01:30	1
Manganese	0.58		0.025	0.010	mg/L		05/10/23 17:30	05/17/23 01:30	1
Nickel	<0.025		0.025	0.010	mg/L		05/10/23 17:30	05/17/23 01:30	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.056		0.050	0.010	mg/L		05/10/23 17:31	05/22/23 21:27	1
Barium	0.85		0.50	0.050	mg/L		05/10/23 17:31	05/22/23 21:27	1
Beryllium	0.0081		0.0040	0.0040	mg/L		05/10/23 17:31	05/22/23 21:27	1
Boron	0.089	J	0.10	0.050	mg/L		05/10/23 17:31	05/22/23 21:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/23 17:31	05/22/23 21:27	1
Calcium	36		2.5	0.50	mg/L		05/10/23 17:31	05/22/23 21:27	1
Chromium	0.14		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:27	1
Cobalt	0.031		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:27	1
Iron	160		0.40	0.20	mg/L		05/10/23 17:31	05/22/23 21:27	1
Lead	0.068		0.0075	0.0075	mg/L		05/10/23 17:31	05/22/23 21:27	1
Manganese	0.97		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:27	1
Nickel	0.13		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:27	1
Potassium	17		2.5	0.50	mg/L		05/10/23 17:31	05/22/23 21:27	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/23 17:31	05/22/23 21:27	1
Silver	<0.025		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:27	1
Zinc	0.60		0.50	0.020	mg/L		05/10/23 17:31	05/22/23 21:27	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/23 17:30	05/15/23 19:10	1

Method: SW846 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		05/10/23 17:31	05/11/23 18:09	1
Thallium	0.0026		0.0020	0.0020	mg/L		05/10/23 17:31	05/11/23 18:09	1

Method: SW846 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		05/12/23 10:50	05/15/23 10:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.010	mg/Kg	✱	05/17/23 15:15	05/18/23 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.29		0.29	0.15	mg/Kg	✱	05/10/23 08:10	05/10/23 10:12	1
pH (SW846 9045D)	8.5		0.2	0.2	SU			05/09/23 18:57	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B119

Lab Sample ID: 500-233325-3

Date Collected: 05/03/23 09:40

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 81.7

Method: SW846 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	0.00075	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00071	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00096	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
1,1-Dichloroethane	<0.0022		0.0022	0.00076	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
1,1-Dichloroethene	<0.0022		0.0022	0.00077	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
1,2-Dichloroethane	<0.0056		0.0056	0.0017	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
1,2-Dichloropropane	<0.0022		0.0022	0.00058	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
1,3-Dichloropropene, Total	<0.0022		0.0022	0.00078	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
2-Butanone (MEK)	<0.0056		0.0056	0.0025	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
2-Hexanone	<0.0056		0.0056	0.0017	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0016	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Acetone	<0.022		0.022	0.0097	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Benzene	<0.0022		0.0022	0.00057	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Bromodichloromethane	<0.0022		0.0022	0.00045	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Bromoform	<0.0022		0.0022	0.00065	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Bromomethane	<0.0056		0.0056	0.0021	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Carbon disulfide	<0.0056		0.0056	0.0012	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Carbon tetrachloride	<0.0022		0.0022	0.00065	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Chlorobenzene	<0.0022		0.0022	0.00082	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Chloroethane	<0.0056		0.0056	0.0016	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Chloroform	<0.0022		0.0022	0.00077	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Chloromethane	<0.0056		0.0056	0.0022	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00062	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00067	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Dibromochloromethane	<0.0022		0.0022	0.00073	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Ethylbenzene	<0.0022		0.0022	0.0011	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00065	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Methylene Chloride	<0.0056		0.0056	0.0022	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Styrene	<0.0022		0.0022	0.00067	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Tetrachloroethene	<0.0022		0.0022	0.00076	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Toluene	0.00076	J	0.0022	0.00056	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00099	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00078	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Trichloroethene	<0.0022		0.0022	0.00075	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Vinyl chloride	<0.0022		0.0022	0.00099	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1
Xylenes, Total	<0.0045		0.0045	0.00071	mg/Kg	☆	05/04/23 17:50	05/09/23 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	05/04/23 17:50	05/09/23 18:38	1
4-Bromofluorobenzene (Surr)	97		75 - 131	05/04/23 17:50	05/09/23 18:38	1
Dibromofluoromethane	96		75 - 126	05/04/23 17:50	05/09/23 18:38	1
Toluene-d8 (Surr)	91		75 - 124	05/04/23 17:50	05/09/23 18:38	1

Method: SW846 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	0.028	mg/Kg	☆	05/16/23 07:28	05/17/23 13:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☆	05/16/23 07:28	05/17/23 13:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	05/16/23 07:28	05/17/23 13:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	☆	05/16/23 07:28	05/17/23 13:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.029	mg/Kg	☆	05/16/23 07:28	05/17/23 13:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B119

Lab Sample ID: 500-233325-3

Date Collected: 05/03/23 09:40

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 81.7

Method: SW846 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	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
2,4,6-Trichlorophenol	<0.40		0.40	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
2,4-Dichlorophenol	<0.40		0.40	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
2,4-Dimethylphenol	<0.40		0.40	0.089	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
2,4-Dinitrophenol	<0.81		0.81	0.23	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.023	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
2-Methylnaphthalene	<0.081		0.081	0.0080	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
2-Nitrophenol	<0.40		0.40	0.027	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
3-Nitroaniline	<0.40		0.40	0.018	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.22	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
4-Chloro-3-methylphenol	<0.40		0.40	0.016	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
4-Chloroaniline	<0.81		0.81	0.42	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
4-Nitroaniline	<0.40		0.40	0.029	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
4-Nitrophenol	<0.81		0.81	0.15	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Acenaphthene	<0.040		0.040	0.0081	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Acenaphthylene	<0.040		0.040	0.0068	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Anthracene	<0.040		0.040	0.0082	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Benzo[a]anthracene	0.046		0.040	0.0085	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Benzo[a]pyrene	0.098		0.040	0.038	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Benzo[b]fluoranthene	0.12		0.040	0.038	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Benzo[g,h,i]perylene	0.11		0.040	0.0086	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Benzo[k]fluoranthene	0.035 J		0.040	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.16	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Carbazole	<0.20		0.20	0.016	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Chrysene	0.054		0.040	0.011	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Dibenz(a,h)anthracene	<0.040		0.040	0.040	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Dimethyl phthalate	<0.20		0.20	0.0087	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Di-n-butyl phthalate	<0.20		0.20	0.013	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Di-n-octyl phthalate	<0.40		0.40	0.28	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Fluoranthene	0.066		0.040	0.0093	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Fluorene	<0.040		0.040	0.012	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Hexachlorobenzene	<0.081		0.081	0.0076	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Hexachlorocyclopentadiene	<0.81	*	0.81	0.42	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1
Hexachloroethane	<0.20	*	0.20	0.020	mg/Kg	☼	05/16/23 07:28	05/17/23 13:00	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B119

Lab Sample ID: 500-233325-3

Date Collected: 05/03/23 09:40

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 81.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.10		0.040	0.039	mg/Kg	☆	05/16/23 07:28	05/17/23 13:00	1
Isophorone	<0.20		0.20	0.021	mg/Kg	☆	05/16/23 07:28	05/17/23 13:00	1
Naphthalene	<0.040		0.040	0.0072	mg/Kg	☆	05/16/23 07:28	05/17/23 13:00	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☆	05/16/23 07:28	05/17/23 13:00	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.0079	mg/Kg	☆	05/16/23 07:28	05/17/23 13:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.024	mg/Kg	☆	05/16/23 07:28	05/17/23 13:00	1
Pentachlorophenol	<0.81		0.81	0.10	mg/Kg	☆	05/16/23 07:28	05/17/23 13:00	1
Phenanthrene	0.027	J	0.040	0.0087	mg/Kg	☆	05/16/23 07:28	05/17/23 13:00	1
Phenol	<0.20		0.20	0.017	mg/Kg	☆	05/16/23 07:28	05/17/23 13:00	1
Pyrene	0.068		0.040	0.011	mg/Kg	☆	05/16/23 07:28	05/17/23 13:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		31 - 166				05/16/23 07:28	05/17/23 13:00	1
Phenol-d5	74		30 - 153				05/16/23 07:28	05/17/23 13:00	1
Nitrobenzene-d5 (Surr)	78		37 - 147				05/16/23 07:28	05/17/23 13:00	1
2-Fluorobiphenyl	86		43 - 145				05/16/23 07:28	05/17/23 13:00	1
2,4,6-Tribromophenol	83		31 - 143				05/16/23 07:28	05/17/23 13:00	1
Terphenyl-d14 (Surr)	97		42 - 157				05/16/23 07:28	05/17/23 13:00	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.1	0.22	mg/Kg	☆	05/09/23 10:25	05/19/23 17:49	1
Arsenic	6.5		0.56	0.19	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Barium	140		0.56	0.064	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Beryllium	0.81		0.22	0.052	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Boron	3.8		2.8	0.26	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Cadmium	0.34	B	0.11	0.020	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Calcium	4500		11	1.9	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Chromium	16		0.56	0.28	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Cobalt	14		0.28	0.074	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Copper	15		0.56	0.16	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Iron	18000		11	5.8	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Lead	51		0.28	0.13	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Magnesium	3200		5.6	2.8	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Manganese	920		0.56	0.081	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Nickel	20		0.56	0.16	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Potassium	1300		28	9.9	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Selenium	0.54	J	0.56	0.33	mg/Kg	☆	05/09/23 10:25	05/19/23 17:49	1
Silver	0.27	J	0.28	0.072	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Sodium	1500		56	8.3	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Thallium	<0.56		0.56	0.28	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Vanadium	29		0.28	0.066	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1
Zinc	140		1.1	0.49	mg/Kg	☆	05/09/23 10:25	05/19/23 02:11	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/10/23 17:30	05/17/23 01:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/23 17:30	05/17/23 01:34	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/23 17:30	05/17/23 01:34	1
Iron	0.43		0.40	0.20	mg/L		05/10/23 17:30	05/17/23 01:34	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B119

Lab Sample ID: 500-233325-3

Date Collected: 05/03/23 09:40

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 81.7

Method: SW846 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		05/10/23 17:30	05/17/23 01:34	1
Manganese	0.15		0.025	0.010	mg/L		05/10/23 17:30	05/17/23 01:34	1
Nickel	<0.025		0.025	0.010	mg/L		05/10/23 17:30	05/17/23 01:34	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.059		0.050	0.010	mg/L		05/10/23 17:31	05/22/23 21:30	1
Barium	1.2		0.50	0.050	mg/L		05/10/23 17:31	05/22/23 21:30	1
Beryllium	0.0095		0.0040	0.0040	mg/L		05/10/23 17:31	05/22/23 21:30	1
Boron	0.096	J	0.10	0.050	mg/L		05/10/23 17:31	05/22/23 21:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/23 17:31	05/22/23 21:30	1
Calcium	41		2.5	0.50	mg/L		05/10/23 17:31	05/22/23 21:30	1
Chromium	0.19		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:30	1
Cobalt	0.037		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:30	1
Iron	200		0.40	0.20	mg/L		05/10/23 17:31	05/22/23 21:30	1
Lead	0.20		0.0075	0.0075	mg/L		05/10/23 17:31	05/22/23 21:30	1
Manganese	1.0		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:30	1
Nickel	0.16		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:30	1
Potassium	22		2.5	0.50	mg/L		05/10/23 17:31	05/22/23 21:30	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/23 17:31	05/22/23 21:30	1
Silver	<0.025		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:30	1
Zinc	1.4		0.50	0.020	mg/L		05/10/23 17:31	05/22/23 21:30	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/23 17:30	05/15/23 19:12	1

Method: SW846 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		05/10/23 17:31	05/11/23 18:11	1
Thallium	0.0027		0.0020	0.0020	mg/L		05/10/23 17:31	05/11/23 18:11	1

Method: SW846 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		05/12/23 10:50	05/15/23 10:06	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.010	mg/Kg	⊛	05/17/23 15:15	05/18/23 09:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.13	mg/Kg	⊛	05/10/23 08:11	05/10/23 10:13	1
pH (SW846 9045D)	8.2		0.2	0.2	SU			05/09/23 19:00	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B120

Lab Sample ID: 500-233325-4

Date Collected: 05/03/23 10:00

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 82.3

Method: SW846 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	☆	05/04/23 17:50	05/09/23 19:04	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0015	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Acetone	0.011	J	0.020	0.0086	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Chloroethane	<0.0049		0.0049	0.0015	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Toluene	0.00076	J	0.0020	0.00050	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	☆	05/04/23 17:50	05/09/23 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	05/04/23 17:50	05/09/23 19:04	1
4-Bromofluorobenzene (Surr)	96		75 - 131	05/04/23 17:50	05/09/23 19:04	1
Dibromofluoromethane	97		75 - 126	05/04/23 17:50	05/09/23 19:04	1
Toluene-d8 (Surr)	91		75 - 124	05/04/23 17:50	05/09/23 19:04	1

Method: SW846 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	0.028	mg/Kg	☆	05/16/23 07:28	05/17/23 13:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☆	05/16/23 07:28	05/17/23 13:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☆	05/16/23 07:28	05/17/23 13:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	☆	05/16/23 07:28	05/17/23 13:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.028	mg/Kg	☆	05/16/23 07:28	05/17/23 13:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B120

Lab Sample ID: 500-233325-4

Date Collected: 05/03/23 10:00

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 82.3

Method: SW846 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	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
2,4,6-Trichlorophenol	<0.39		0.39	0.013	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
2,4-Dichlorophenol	<0.39		0.39	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
2,4-Dimethylphenol	<0.39		0.39	0.088	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
2,4-Dinitrophenol	<0.80		0.80	0.23	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.023	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.013	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
2-Methylnaphthalene	<0.080		0.080	0.0079	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
2-Nitroaniline	<0.20		0.20	0.021	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
2-Nitrophenol	<0.39		0.39	0.027	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
3 & 4 Methylphenol	<0.20		0.20	0.029	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
3-Nitroaniline	<0.39		0.39	0.018	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.22	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.027	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
4-Chloro-3-methylphenol	<0.39		0.39	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
4-Chloroaniline	<0.80		0.80	0.41	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
4-Nitroaniline	<0.39		0.39	0.029	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
4-Nitrophenol	<0.80		0.80	0.15	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Acenaphthene	<0.039		0.039	0.0080	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Acenaphthylene	<0.039		0.039	0.0067	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Anthracene	<0.039		0.039	0.0081	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Benzo[a]anthracene	<0.039		0.039	0.0084	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Benzo[a]pyrene	<0.039		0.039	0.038	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Benzo[b]fluoranthene	0.046		0.039	0.038	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Benzo[g,h,i]perylene	0.031	J	0.039	0.0086	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Benzo[k]fluoranthene	<0.039		0.039	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.018	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.15	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Butyl benzyl phthalate	<0.20		0.20	0.020	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Carbazole	<0.20		0.20	0.016	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Chrysene	<0.039		0.039	0.010	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Dibenz(a,h)anthracene	<0.039		0.039	0.039	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Dibenzofuran	<0.20		0.20	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Dimethyl phthalate	<0.20		0.20	0.0086	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Di-n-butyl phthalate	<0.20		0.20	0.013	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Di-n-octyl phthalate	<0.39		0.39	0.28	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Fluoranthene	0.037	J	0.039	0.0092	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Fluorene	<0.039		0.039	0.012	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Hexachlorobenzene	<0.080		0.080	0.0076	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Hexachlorobutadiene	<0.20		0.20	0.022	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Hexachlorocyclopentadiene	<0.80	*	0.80	0.42	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1
Hexachloroethane	<0.20	*	0.20	0.020	mg/Kg	☼	05/16/23 07:28	05/17/23 13:24	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B120

Lab Sample ID: 500-233325-4

Date Collected: 05/03/23 10:00

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 82.3

Method: SW846 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	0.038	mg/Kg	✱	05/16/23 07:28	05/17/23 13:24	1
Isophorone	<0.20		0.20	0.020	mg/Kg	✱	05/16/23 07:28	05/17/23 13:24	1
Naphthalene	<0.039		0.039	0.0071	mg/Kg	✱	05/16/23 07:28	05/17/23 13:24	1
Nitrobenzene	<0.039		0.039	0.013	mg/Kg	✱	05/16/23 07:28	05/17/23 13:24	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.0078	mg/Kg	✱	05/16/23 07:28	05/17/23 13:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.023	mg/Kg	✱	05/16/23 07:28	05/17/23 13:24	1
Pentachlorophenol	<0.80		0.80	0.099	mg/Kg	✱	05/16/23 07:28	05/17/23 13:24	1
Phenanthrene	0.019	J	0.039	0.0086	mg/Kg	✱	05/16/23 07:28	05/17/23 13:24	1
Phenol	<0.20		0.20	0.017	mg/Kg	✱	05/16/23 07:28	05/17/23 13:24	1
Pyrene	0.032	J	0.039	0.011	mg/Kg	✱	05/16/23 07:28	05/17/23 13:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		31 - 166				05/16/23 07:28	05/17/23 13:24	1
Phenol-d5	75		30 - 153				05/16/23 07:28	05/17/23 13:24	1
Nitrobenzene-d5 (Surr)	84		37 - 147				05/16/23 07:28	05/17/23 13:24	1
2-Fluorobiphenyl	88		43 - 145				05/16/23 07:28	05/17/23 13:24	1
2,4,6-Tribromophenol	87		31 - 143				05/16/23 07:28	05/17/23 13:24	1
Terphenyl-d14 (Surr)	95		42 - 157				05/16/23 07:28	05/17/23 13:24	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.8		5.8	1.1	mg/Kg	✱	05/09/23 10:25	05/19/23 17:52	5
Arsenic	8.5		0.58	0.20	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Barium	77		0.58	0.066	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Beryllium	0.88		0.23	0.054	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Boron	11		2.9	0.27	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Cadmium	0.26	B	0.12	0.021	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Calcium	60000		58	9.8	mg/Kg	✱	05/09/23 10:25	05/19/23 17:52	5
Chromium	17		0.58	0.29	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Cobalt	14		0.29	0.076	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Copper	23		0.58	0.16	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Iron	21000		12	6.0	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Lead	17		0.29	0.13	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Magnesium	24000		5.8	2.9	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Manganese	530		0.58	0.084	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Nickel	34		0.58	0.17	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Potassium	2400		29	10	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Selenium	<2.9		2.9	1.7	mg/Kg	✱	05/09/23 10:25	05/19/23 17:52	5
Silver	0.27	J	0.29	0.075	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Sodium	740		58	8.6	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Thallium	<0.58		0.58	0.29	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Vanadium	25		0.29	0.068	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1
Zinc	75		1.2	0.51	mg/Kg	✱	05/09/23 10:25	05/19/23 02:15	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/10/23 17:30	05/17/23 02:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/23 17:30	05/17/23 02:53	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/23 17:30	05/17/23 02:53	1
Iron	<0.40		0.40	0.20	mg/L		05/10/23 17:30	05/17/23 02:53	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B120

Lab Sample ID: 500-233325-4

Date Collected: 05/03/23 10:00

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 82.3

Method: SW846 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		05/10/23 17:30	05/17/23 02:53	1
Manganese	2.9		0.025	0.010	mg/L		05/10/23 17:30	05/17/23 02:53	1
Nickel	0.017	J	0.025	0.010	mg/L		05/10/23 17:30	05/17/23 02:53	1

Method: SW846 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		05/10/23 17:31	05/22/23 21:34	1
Barium	0.98		0.50	0.050	mg/L		05/10/23 17:31	05/22/23 21:34	1
Beryllium	0.0096		0.0040	0.0040	mg/L		05/10/23 17:31	05/22/23 21:34	1
Boron	0.13		0.10	0.050	mg/L		05/10/23 17:31	05/22/23 21:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		05/10/23 17:31	05/22/23 21:34	1
Calcium	50		2.5	0.50	mg/L		05/10/23 17:31	05/22/23 21:34	1
Chromium	0.17		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:34	1
Cobalt	0.051		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:34	1
Iron	200		0.40	0.20	mg/L		05/10/23 17:31	05/22/23 21:34	1
Lead	0.13		0.0075	0.0075	mg/L		05/10/23 17:31	05/22/23 21:34	1
Manganese	1.1		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:34	1
Nickel	0.19		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:34	1
Potassium	24		2.5	0.50	mg/L		05/10/23 17:31	05/22/23 21:34	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/23 17:31	05/22/23 21:34	1
Silver	<0.025		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:34	1
Zinc	0.84		0.50	0.020	mg/L		05/10/23 17:31	05/22/23 21:34	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/23 17:30	05/15/23 19:30	1

Method: SW846 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		05/10/23 17:31	05/11/23 18:13	1
Thallium	0.0032		0.0020	0.0020	mg/L		05/10/23 17:31	05/11/23 18:13	1

Method: SW846 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		05/12/23 10:50	05/15/23 10:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.010	mg/Kg	✱	05/17/23 15:15	05/18/23 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.27		0.27	0.14	mg/Kg	✱	05/10/23 08:12	05/10/23 10:15	1
pH (SW846 9045D)	9.0		0.2	0.2	SU			05/09/23 19:05	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B121

Lab Sample ID: 500-233325-5

Date Collected: 05/03/23 10:20

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 80.1

Method: SW846 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	✳	05/04/23 17:50	05/09/23 19:29	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0015	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Acetone	<0.020		0.020	0.0086	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Chloroethane	<0.0049		0.0049	0.0015	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Toluene	0.00052	J	0.0020	0.00050	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	✳	05/04/23 17:50	05/09/23 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	05/04/23 17:50	05/09/23 19:29	1
4-Bromofluorobenzene (Surr)	95		75 - 131	05/04/23 17:50	05/09/23 19:29	1
Dibromofluoromethane	97		75 - 126	05/04/23 17:50	05/09/23 19:29	1
Toluene-d8 (Surr)	90		75 - 124	05/04/23 17:50	05/09/23 19:29	1

Method: SW846 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	0.029	mg/Kg	✳	05/16/23 07:28	05/17/23 13:49	1
1,2-Dichlorobenzene	<0.21		0.21	0.017	mg/Kg	✳	05/16/23 07:28	05/17/23 13:49	1
1,3-Dichlorobenzene	<0.21		0.21	0.019	mg/Kg	✳	05/16/23 07:28	05/17/23 13:49	1
1,4-Dichlorobenzene	<0.21		0.21	0.019	mg/Kg	✳	05/16/23 07:28	05/17/23 13:49	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.029	mg/Kg	✳	05/16/23 07:28	05/17/23 13:49	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B121

Lab Sample ID: 500-233325-5

Date Collected: 05/03/23 10:20

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 80.1

Method: SW846 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	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
2,4,6-Trichlorophenol	<0.41		0.41	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
2,4-Dichlorophenol	<0.41		0.41	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
2,4-Dimethylphenol	<0.41		0.41	0.092	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
2,4-Dinitrophenol	<0.83		0.83	0.24	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
2,4-Dinitrotoluene	<0.21		0.21	0.023	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
2,6-Dinitrotoluene	<0.21		0.21	0.014	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
2-Chloronaphthalene	<0.21		0.21	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
2-Chlorophenol	<0.21		0.21	0.013	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
2-Methylnaphthalene	<0.083		0.083	0.0082	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
2-Methylphenol	<0.21		0.21	0.022	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
2-Nitroaniline	<0.21		0.21	0.022	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
2-Nitrophenol	<0.41		0.41	0.028	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
3 & 4 Methylphenol	<0.21		0.21	0.030	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
3-Nitroaniline	<0.41		0.41	0.019	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.23	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.028	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
4-Chloro-3-methylphenol	<0.41		0.41	0.016	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
4-Chloroaniline	<0.83		0.83	0.43	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
4-Nitroaniline	<0.41		0.41	0.030	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
4-Nitrophenol	<0.83		0.83	0.15	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Acenaphthene	<0.041		0.041	0.0083	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Acenaphthylene	<0.041		0.041	0.0070	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Anthracene	<0.041		0.041	0.0084	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Benzo[a]anthracene	0.035	J	0.041	0.0087	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Benzo[a]pyrene	<0.041		0.041	0.040	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Benzo[b]fluoranthene	0.056		0.041	0.039	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Benzo[g,h,i]perylene	0.030	J	0.041	0.0089	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Benzo[k]fluoranthene	0.022	J	0.041	0.016	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.019	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.16	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Butyl benzyl phthalate	<0.21		0.21	0.020	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Carbazole	<0.21		0.21	0.016	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Chrysene	0.036	J	0.041	0.011	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Dibenz(a,h)anthracene	<0.041		0.041	0.041	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Dibenzofuran	<0.21		0.21	0.015	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Diethyl phthalate	<0.21		0.21	0.019	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Dimethyl phthalate	<0.21		0.21	0.0089	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Di-n-butyl phthalate	<0.21		0.21	0.013	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Di-n-octyl phthalate	<0.41		0.41	0.29	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Fluoranthene	0.045		0.041	0.0095	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Fluorene	<0.041		0.041	0.012	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Hexachlorobenzene	<0.083		0.083	0.0079	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Hexachlorobutadiene	<0.21		0.21	0.023	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Hexachlorocyclopentadiene	<0.83	*	0.83	0.44	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1
Hexachloroethane	<0.21	*	0.21	0.021	mg/Kg	☼	05/16/23 07:28	05/17/23 13:49	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B121

Lab Sample ID: 500-233325-5

Date Collected: 05/03/23 10:20

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 80.1

Method: SW846 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	0.040	mg/Kg	✳	05/16/23 07:28	05/17/23 13:49	1
Isophorone	<0.21		0.21	0.021	mg/Kg	✳	05/16/23 07:28	05/17/23 13:49	1
Naphthalene	<0.041		0.041	0.0074	mg/Kg	✳	05/16/23 07:28	05/17/23 13:49	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	✳	05/16/23 07:28	05/17/23 13:49	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.0081	mg/Kg	✳	05/16/23 07:28	05/17/23 13:49	1
N-Nitrosodiphenylamine	<0.21		0.21	0.024	mg/Kg	✳	05/16/23 07:28	05/17/23 13:49	1
Pentachlorophenol	<0.83		0.83	0.10	mg/Kg	✳	05/16/23 07:28	05/17/23 13:49	1
Phenanthrene	0.020	J	0.041	0.0089	mg/Kg	✳	05/16/23 07:28	05/17/23 13:49	1
Phenol	<0.21		0.21	0.018	mg/Kg	✳	05/16/23 07:28	05/17/23 13:49	1
Pyrene	0.044		0.041	0.011	mg/Kg	✳	05/16/23 07:28	05/17/23 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		31 - 166	05/16/23 07:28	05/17/23 13:49	1
Phenol-d5	70		30 - 153	05/16/23 07:28	05/17/23 13:49	1
Nitrobenzene-d5 (Surr)	74		37 - 147	05/16/23 07:28	05/17/23 13:49	1
2-Fluorobiphenyl	82		43 - 145	05/16/23 07:28	05/17/23 13:49	1
2,4,6-Tribromophenol	79		31 - 143	05/16/23 07:28	05/17/23 13:49	1
Terphenyl-d14 (Surr)	93		42 - 157	05/16/23 07:28	05/17/23 13:49	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.2	0.23	mg/Kg	✳	05/09/23 10:25	05/19/23 17:56	1
Arsenic	8.7		0.59	0.20	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Barium	110		0.59	0.067	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Beryllium	0.94		0.23	0.055	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Boron	5.7		2.9	0.27	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Cadmium	0.21	B	0.12	0.021	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Calcium	3500		12	2.0	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Chromium	19		0.59	0.29	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Cobalt	13		0.29	0.077	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Copper	23		0.59	0.16	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Iron	24000		12	6.1	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Lead	21		0.29	0.14	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Magnesium	4000		5.9	2.9	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Manganese	550		0.59	0.085	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Nickel	34		0.59	0.17	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Potassium	1600		29	10	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Selenium	0.48	J	0.59	0.34	mg/Kg	✳	05/09/23 10:25	05/19/23 17:56	1
Silver	0.42		0.29	0.076	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Sodium	1500		59	8.7	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Thallium	<0.59		0.59	0.29	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Vanadium	27		0.29	0.069	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1
Zinc	90		1.2	0.52	mg/Kg	✳	05/09/23 10:25	05/19/23 02:18	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		05/10/23 17:30	05/17/23 01:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		05/10/23 17:30	05/17/23 01:37	1
Chromium	<0.025		0.025	0.010	mg/L		05/10/23 17:30	05/17/23 01:37	1
Iron	<0.40		0.40	0.20	mg/L		05/10/23 17:30	05/17/23 01:37	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Client Sample ID: 2233V3-1-B121

Lab Sample ID: 500-233325-5

Date Collected: 05/03/23 10:20

Matrix: Solid

Date Received: 05/04/23 11:48

Percent Solids: 80.1

Method: SW846 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		05/10/23 17:30	05/17/23 01:37	1
Manganese	0.63		0.025	0.010	mg/L		05/10/23 17:30	05/17/23 01:37	1
Nickel	<0.025		0.025	0.010	mg/L		05/10/23 17:30	05/17/23 01:37	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12		0.050	0.010	mg/L		05/10/23 17:31	05/22/23 21:37	1
Barium	1.4		0.50	0.050	mg/L		05/10/23 17:31	05/22/23 21:37	1
Beryllium	0.016		0.0040	0.0040	mg/L		05/10/23 17:31	05/22/23 21:37	1
Boron	0.14		0.10	0.050	mg/L		05/10/23 17:31	05/22/23 21:37	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		05/10/23 17:31	05/22/23 21:37	1
Calcium	42		2.5	0.50	mg/L		05/10/23 17:31	05/22/23 21:37	1
Chromium	0.25		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:37	1
Cobalt	0.080		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:37	1
Iron	320		0.40	0.20	mg/L		05/10/23 17:31	05/22/23 21:37	1
Lead	0.18		0.0075	0.0075	mg/L		05/10/23 17:31	05/22/23 21:37	1
Manganese	2.5		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:37	1
Nickel	0.34		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:37	1
Potassium	29		2.5	0.50	mg/L		05/10/23 17:31	05/22/23 21:37	1
Selenium	<0.050		0.050	0.020	mg/L		05/10/23 17:31	05/22/23 21:37	1
Silver	<0.025		0.025	0.010	mg/L		05/10/23 17:31	05/22/23 21:37	1
Zinc	1.3		0.50	0.020	mg/L		05/10/23 17:31	05/22/23 21:37	1

Method: SW846 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		05/10/23 17:30	05/15/23 19:14	1

Method: SW846 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		05/10/23 17:31	05/11/23 18:15	1
Thallium	0.0050		0.0020	0.0020	mg/L		05/10/23 17:31	05/11/23 18:15	1

Method: SW846 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		05/12/23 10:50	05/15/23 10:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.020	0.010	mg/Kg	✱	05/17/23 15:15	05/18/23 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.28	F1	0.28	0.14	mg/Kg	✱	05/10/23 08:13	05/10/23 10:16	1
pH (SW846 9045D)	8.4		0.2	0.2	SU			05/09/23 19:09	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-010

Job ID: 500-233325-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*.	LCS and/or LCSD is outside acceptance limits, low biased.
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.

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
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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 - AE8-010

Job ID: 500-233325-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-23 *

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* Accreditation/Certification renewal pending - accreditation/certification considered valid.

CHAIN OF CUSTODY RECORD



Client Contact Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact Colleen Grey email cgrey@andrews-eng.com	Laboratory Lab Eurofins - Chicago Address 2417 Bond Street University Park, IL 60484 Phone 708-534-5200 Contact Jodie Bracken email Jodie.Bracken@ET.EurofinsUS.com	Project Name <u>AE8-010A</u> 500-233325 COC Project No <u>PTB/WO#: 195-002/010A</u> TAT <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>J. Weisbradt</u>	COC No <u>1</u> of <u>2</u> Lab Job No.: <u>500-233325</u> Sample Temp: <u>1.9-2.3</u>
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Special Instructions:
See Table 2 for complete parameter lists and minimum reporting limits
* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3) run TCLP for that specific RCRA metal
** If SPLP result exceeds Class I Standard run TCLP for that specific parameter
*** If total cyanide exceeds MAC, run ASTM D3987 (Neutral Leach) cyanide

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

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization	Comments
1	2233V3-1-B117	5/13/23	0900	S	X	X					X	X	X	X	X		
2	2233V3-1-B118		0920														
3	2233V3-1-B119		0940														
4	2233V3-1-B120		1000														
5	2233V3-1-B121		1020														
6	2233V3-1-B126		1040														
7	2233V3-1-B125		1100														
8	2233V3-1-B124		1120														
9	2233V3-1-B124 DUP		1140														
10	2233V3-1-B123		1200														
11	2233V3-1-B122-1		1220		↓	↓					↓	↓	↓	↓	↓		

Relinquished by <u>Jodie Weisbradt</u>	Date/Time <u>5/13/23 1100</u>	Received by <u>Stephanie Hemondy</u>	Date/Time <u>5/13/23 1100</u>
Relinquished by <u>David Anderson</u>	Date/Time <u>5/13/23 1145</u>	Received by <u>Stephanie Hemondy</u>	Date/Time <u>5/13/23 1148</u>
Relinquished by	Date/Time	Received by	Date/Time