



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: Ashland Avenue at FAI 290 (I-290) Office Phone Number, if available: _____

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

400 block of South Ashland Avenue (intersection of I-290 and Ashland Avenue)

City: Chicago State: IL Zip Code: 60607

County: Cook Township: Near West Side

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

Latitude: 41.87598 Longitude: - 87.66665
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 181

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 3054V2-83-B02 AND 3054V2-83-B05 WERE SAMPLED ADJACENT TO SITE 3054V2-83. SEE TABLE 3b AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS ANALYTICAL REPORT - EUROFINS JOB ID NUMBER: 500-244390-1.

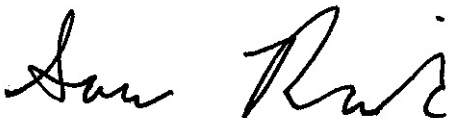
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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:

Feb 6, 2024
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 3054V2-83
Bridge

Sample ID	3054V2-83-B02		3054V2-83-B05		Maximum Allowable Concentration					TACO Tier 1		
	Sample Depth (ft)	0-3		0-3		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	⁶ Class I Soil (TCLP/SPLP Comparisons Only)	⁷ Most Stringent Applicable Residential Objective
Sample Date	12/26/2023		12/26/2023									
PID	0		0									
Sample pH	8.2		7.3									
Matrix	Soil		Soil									
Semivolatile Organic Compounds (mg/kg)												
Benzo(a)pyrene	0.1	1,2	1.1	1,2,3	0.09	0.09	0.98	11.4	2.1	--	2.1	17
Benzo(b)fluoranthene	0.12		1.3	1,2,3	0.9	0.9	0.9	13.1	2.1	--	2.1	170
Dibenzo(a,h)anthracene	ND		0.23	1,2,3	0.09	0.09	0.15	1.03	0.42	--	0.42	17
Indeno(1,2,3-cd)pyrene	0.098		1.1	1,2,3	0.9	0.9	0.9	5.77	1.6	--	1.6	170



ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

IDOT - AE8-023A

JOB NUMBER

500-244390-1

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 Manager I
Jodie.Bracken@ET.EurofinsUS.com
(708)534-5200

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-023A

Job ID: 500-244390-1

Client Sample ID: 3054V2-83-B05

Lab Sample ID: 500-244390-1

Date Collected: 12/26/23 10:00

Matrix: Solid

Date Received: 12/27/23 12:12

Percent Solids: 81.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00066	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
1,1-Dichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
1,1-Dichloroethene	<0.0015		0.0015	0.00053	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00054	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
2-Butanone (MEK)	<0.0038		0.0038	0.0017	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0011	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Acetone	<0.015		0.015	0.0067	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Bromoform	<0.0015		0.0015	0.00045	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Carbon disulfide	<0.0038		0.0038	0.00079	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Carbon tetrachloride	<0.0015		0.0015	0.00044	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Chlorobenzene	<0.0015		0.0015	0.00056	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Chloroethane	<0.0038		0.0038	0.0011	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Chloromethane	<0.0038		0.0038	0.0015	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Ethylbenzene	<0.0015		0.0015	0.00073	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Methylene Chloride	<0.0038		0.0038	0.0015	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Toluene	<0.0015		0.0015	0.00039	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00068	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00054	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Trichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Vinyl chloride	<0.0015		0.0015	0.00068	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1
Xylenes, Total	<0.0031		0.0031	0.00049	mg/Kg	☼	12/27/23 16:32	12/29/23 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	12/27/23 16:32	12/29/23 16:32	1
4-Bromofluorobenzene (Surr)	110		75 - 131	12/27/23 16:32	12/29/23 16:32	1
Dibromofluoromethane	120		75 - 126	12/27/23 16:32	12/29/23 16:32	1
Toluene-d8 (Surr)	107		75 - 124	12/27/23 16:32	12/29/23 16:32	1

Method: SW846 8270E - 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	☼	01/03/24 13:14	01/04/24 18:40	1
1,2-Dichlorobenzene	<0.20		0.20	0.016	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.018	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.019	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.029	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1

Eurofins Chicago

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-023A

Job ID: 500-244390-1

Client Sample ID: 3054V2-83-B05

Lab Sample ID: 500-244390-1

Date Collected: 12/26/23 10:00

Matrix: Solid

Date Received: 12/27/23 12:12

Percent Solids: 81.8

Method: SW846 8270E - 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	☼	01/03/24 13:14	01/04/24 18:40	1
2,4,6-Trichlorophenol	<0.40		0.40	0.014	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
2,4-Dichlorophenol	<0.40		0.40	0.014	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
2,4-Dimethylphenol	<0.40		0.40	0.090	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
2,4-Dinitrophenol	<0.81		0.81	0.23	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.023	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.014	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
2-Chloronaphthalene	<0.20		0.20	0.015	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
2-Chlorophenol	<0.20		0.20	0.013	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
2-Methylnaphthalene	0.025	J	0.081	0.0081	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
2-Methylphenol	<0.20		0.20	0.021	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
2-Nitroaniline	<0.20		0.20	0.022	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
2-Nitrophenol	<0.40		0.40	0.027	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
3 & 4 Methylphenol	<0.20		0.20	0.030	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
3-Nitroaniline	<0.40		0.40	0.018	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.23	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.028	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
4-Chloro-3-methylphenol	<0.40		0.40	0.016	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
4-Chloroaniline	<0.81		0.81	0.42	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
4-Nitroaniline	<0.40		0.40	0.030	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
4-Nitrophenol	<0.81		0.81	0.15	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Acenaphthene	0.081		0.040	0.0082	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Acenaphthylene	0.038	J	0.040	0.0068	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Anthracene	0.15		0.040	0.0082	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Benzo[a]anthracene	0.72		0.040	0.0086	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Benzo[a]pyrene	1.1		0.040	0.039	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Benzo[b]fluoranthene	1.3		0.040	0.038	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Benzo[g,h,i]perylene	0.89		0.040	0.0087	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Benzo[k]fluoranthene	0.46		0.040	0.015	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.015	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.019	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Bis(2-ethylhexyl) phthalate	0.27		0.20	0.16	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Butyl benzyl phthalate	0.11	J	0.20	0.020	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Carbazole	0.064	J	0.20	0.016	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Chrysene	0.77		0.040	0.011	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Dibenz(a,h)anthracene	0.23		0.040	0.040	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Dibenzofuran	0.022	J	0.20	0.014	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Diethyl phthalate	<0.20		0.20	0.018	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Dimethyl phthalate	<0.20		0.20	0.0088	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Di-n-butyl phthalate	<0.20		0.20	0.013	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Di-n-octyl phthalate	<0.40		0.40	0.28	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Fluoranthene	1.3		0.040	0.0094	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Fluorene	0.043		0.040	0.012	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Hexachlorobenzene	<0.081		0.081	0.0077	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Hexachlorobutadiene	<0.20		0.20	0.023	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Hexachlorocyclopentadiene	<0.81		0.81	0.43	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Hexachloroethane	<0.20		0.20	0.020	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-023A

Job ID: 500-244390-1

Client Sample ID: 3054V2-83-B05

Lab Sample ID: 500-244390-1

Date Collected: 12/26/23 10:00

Matrix: Solid

Date Received: 12/27/23 12:12

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	1.1		0.040	0.039	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Isophorone	<0.20		0.20	0.021	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Naphthalene	0.026	J	0.040	0.0073	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.0080	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.024	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Pentachlorophenol	<0.81		0.81	0.10	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Phenanthrene	0.61		0.040	0.0088	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Phenol	<0.20		0.20	0.017	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Pyrene	1.1		0.040	0.011	mg/Kg	☼	01/03/24 13:14	01/04/24 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	72		31 - 143				01/03/24 13:14	01/04/24 18:40	1
2-Fluorobiphenyl	71		43 - 145				01/03/24 13:14	01/04/24 18:40	1
2-Fluorophenol	69		31 - 166				01/03/24 13:14	01/04/24 18:40	1
Nitrobenzene-d5 (Surr)	70		37 - 147				01/03/24 13:14	01/04/24 18:40	1
Phenol-d5	71		30 - 153				01/03/24 13:14	01/04/24 18:40	1
Terphenyl-d14 (Surr)	83		42 - 157				01/03/24 13:14	01/04/24 18:40	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.3		2.3	0.45	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Arsenic	7.4		1.1	0.39	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Barium	110		1.1	0.13	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Beryllium	0.65		0.46	0.11	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Boron	5.0	J	5.7	0.53	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Cadmium	0.55	B	0.23	0.041	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Calcium	20000		23	3.9	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Chromium	17		1.1	0.57	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Cobalt	9.0		0.57	0.15	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Copper	26		1.1	0.32	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Iron	17000		23	12	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Lead	110		0.57	0.26	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Magnesium	9800		11	5.7	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Manganese	580		1.1	0.17	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Nickel	19		1.1	0.33	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Potassium	1600		57	20	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Selenium	<1.1		1.1	0.67	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Silver	<0.57		0.57	0.15	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Sodium	200		110	17	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Thallium	<1.1		1.1	0.57	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Vanadium	24		0.57	0.14	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	1
Zinc	99		2.3	1.0	mg/Kg	☼	01/04/24 01:17	01/05/24 21:01	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		01/04/24 16:40	01/08/24 16:34	1
Iron	0.73	F1	0.40	0.20	mg/L		01/04/24 16:40	01/08/24 16:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/04/24 16:40	01/08/24 16:34	1
Manganese	0.43	F1	0.025	0.010	mg/L		01/04/24 16:40	01/08/24 16:34	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-023A

Job ID: 500-244390-1

Client Sample ID: 3054V2-83-B05

Lab Sample ID: 500-244390-1

Date Collected: 12/26/23 10:00

Matrix: Solid

Date Received: 12/27/23 12:12

Percent Solids: 81.8

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		01/03/24 18:47	01/08/24 16:55	1
Barium	0.56		0.50	0.050	mg/L		01/03/24 18:47	01/08/24 16:55	1
Beryllium	0.0063		0.0040	0.0040	mg/L		01/03/24 18:47	01/08/24 16:55	1
Boron	0.069	J	0.10	0.050	mg/L		01/03/24 18:47	01/08/24 16:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/03/24 18:47	01/08/24 16:55	1
Calcium	27	B	2.5	0.50	mg/L		01/03/24 18:47	01/08/24 16:55	1
Chromium	0.10		0.025	0.010	mg/L		01/03/24 18:47	01/08/24 16:55	1
Cobalt	0.025		0.025	0.010	mg/L		01/03/24 18:47	01/08/24 16:55	1
Iron	91		0.40	0.20	mg/L		01/03/24 18:47	01/08/24 16:55	1
Lead	0.28		0.0075	0.0075	mg/L		01/03/24 18:47	01/08/24 16:55	1
Manganese	1.1		0.025	0.010	mg/L		01/03/24 18:47	01/08/24 16:55	1
Nickel	0.086		0.025	0.010	mg/L		01/03/24 18:47	01/08/24 16:55	1
Potassium	15		2.5	0.50	mg/L		01/03/24 18:47	01/08/24 16:55	1
Selenium	<0.050		0.050	0.020	mg/L		01/03/24 18:47	01/08/24 16:55	1
Silver	<0.025		0.025	0.010	mg/L		01/03/24 18:47	01/08/24 16:55	1
Zinc	0.46	J	0.50	0.020	mg/L		01/03/24 18:47	01/08/24 16:55	1

Method: SW846 6020B - 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		01/03/24 18:47	01/09/24 02:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/03/24 18:47	01/09/24 02:44	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		01/04/24 11:40	01/05/24 10:10	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	⊛	01/05/24 14:25	01/08/24 07:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.22	J	0.28	0.14	mg/Kg	⊛	01/06/24 12:44	01/06/24 14:45	1
pH (SW846 9045D)	7.3		0.2	0.2	SU			12/28/23 20:21	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-023A

Job ID: 500-244390-1

Client Sample ID: 3054V2-83-B02

Lab Sample ID: 500-244390-4

Date Collected: 12/26/23 11:00

Matrix: Solid

Date Received: 12/27/23 12:12

Percent Solids: 79.5

Method: SW846 8260D - Volatile Organic Compounds by 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	☼	12/27/23 16:32	12/29/23 17:46	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Carbon disulfide	<0.0043		0.0043	0.00088	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	12/27/23 16:32	12/29/23 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	12/27/23 16:32	12/29/23 17:46	1
4-Bromofluorobenzene (Surr)	113		75 - 131	12/27/23 16:32	12/29/23 17:46	1
Dibromofluoromethane	117		75 - 126	12/27/23 16:32	12/29/23 17:46	1
Toluene-d8 (Surr)	108		75 - 124	12/27/23 16:32	12/29/23 17:46	1

Method: SW846 8270E - 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	☼	01/03/24 13:14	01/04/24 14:55	1
1,2-Dichlorobenzene	<0.21		0.21	0.017	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
1,3-Dichlorobenzene	<0.21		0.21	0.018	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
1,4-Dichlorobenzene	<0.21		0.21	0.019	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.029	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-023A

Job ID: 500-244390-1

Client Sample ID: 3054V2-83-B02

Lab Sample ID: 500-244390-4

Date Collected: 12/26/23 11:00

Matrix: Solid

Date Received: 12/27/23 12:12

Percent Solids: 79.5

Method: SW846 8270E - 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	☼	01/03/24 13:14	01/04/24 14:55	1
2,4,6-Trichlorophenol	<0.41		0.41	0.014	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
2,4-Dichlorophenol	<0.41		0.41	0.014	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
2,4-Dimethylphenol	<0.41		0.41	0.091	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
2,4-Dinitrophenol	<0.82		0.82	0.24	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
2,4-Dinitrotoluene	<0.21		0.21	0.023	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
2,6-Dinitrotoluene	<0.21		0.21	0.014	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
2-Chloronaphthalene	<0.21		0.21	0.015	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
2-Chlorophenol	<0.21		0.21	0.013	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
2-Methylnaphthalene	<0.082		0.082	0.0082	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
2-Methylphenol	<0.21		0.21	0.021	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
2-Nitroaniline	<0.21		0.21	0.022	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
2-Nitrophenol	<0.41		0.41	0.028	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
3 & 4 Methylphenol	<0.21		0.21	0.030	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.033	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
3-Nitroaniline	<0.41		0.41	0.019	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.23	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.028	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
4-Chloro-3-methylphenol	<0.41		0.41	0.016	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
4-Chloroaniline	<0.82		0.82	0.43	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.053	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
4-Nitroaniline	<0.41		0.41	0.030	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
4-Nitrophenol	<0.82		0.82	0.15	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Acenaphthene	<0.041		0.041	0.0083	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Acenaphthylene	<0.041		0.041	0.0069	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Anthracene	0.021	J	0.041	0.0083	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Benzo[a]anthracene	0.079		0.041	0.0086	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Benzo[a]pyrene	0.10		0.041	0.039	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Benzo[b]fluoranthene	0.12		0.041	0.039	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Benzo[g,h,i]perylene	0.064		0.041	0.0088	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Benzo[k]fluoranthene	0.041		0.041	0.015	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.015	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.019	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.16	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Butyl benzyl phthalate	<0.21		0.21	0.020	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Carbazole	<0.21		0.21	0.016	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Chrysene	0.096		0.041	0.011	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Dibenz(a,h)anthracene	<0.041		0.041	0.041	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Dibenzofuran	<0.21		0.21	0.014	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Diethyl phthalate	<0.21		0.21	0.019	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Dimethyl phthalate	<0.21		0.21	0.0089	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Di-n-butyl phthalate	<0.21		0.21	0.013	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Di-n-octyl phthalate	<0.41		0.41	0.28	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Fluoranthene	0.17		0.041	0.0095	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Fluorene	<0.041		0.041	0.012	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Hexachlorobenzene	<0.082		0.082	0.0078	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Hexachlorobutadiene	<0.21		0.21	0.023	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Hexachlorocyclopentadiene	<0.82		0.82	0.43	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Hexachloroethane	<0.21		0.21	0.020	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-023A

Job ID: 500-244390-1

Client Sample ID: 3054V2-83-B02

Lab Sample ID: 500-244390-4

Date Collected: 12/26/23 11:00

Matrix: Solid

Date Received: 12/27/23 12:12

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.098		0.041	0.040	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Isophorone	<0.21		0.21	0.021	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Naphthalene	<0.041		0.041	0.0074	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.0080	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
N-Nitrosodiphenylamine	<0.21		0.21	0.024	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Pentachlorophenol	<0.82		0.82	0.10	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Phenanthrene	0.086		0.041	0.0089	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Phenol	<0.21		0.21	0.018	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Pyrene	0.15		0.041	0.011	mg/Kg	☼	01/03/24 13:14	01/04/24 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		31 - 143				01/03/24 13:14	01/04/24 14:55	1
2-Fluorobiphenyl	77		43 - 145				01/03/24 13:14	01/04/24 14:55	1
2-Fluorophenol	71		31 - 166				01/03/24 13:14	01/04/24 14:55	1
Nitrobenzene-d5 (Surr)	78		37 - 147				01/03/24 13:14	01/04/24 14:55	1
Phenol-d5	73		30 - 153				01/03/24 13:14	01/04/24 14:55	1
Terphenyl-d14 (Surr)	88		42 - 157				01/03/24 13:14	01/04/24 14:55	1

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.5		2.5	0.48	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Arsenic	6.2		1.2	0.42	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Barium	120		1.2	0.14	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Beryllium	0.75		0.49	0.11	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Boron	5.0 J		6.2	0.57	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Cadmium	0.52 B		0.25	0.044	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Calcium	11000		25	4.2	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Chromium	20		1.2	0.61	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Cobalt	9.9		0.62	0.16	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Copper	41		1.2	0.34	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Iron	18000		25	13	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Lead	41		0.62	0.28	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Magnesium	6200		12	6.1	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Manganese	380		1.2	0.18	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Nickel	23		1.2	0.36	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Potassium	2100		62	22	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Selenium	<1.2		1.2	0.72	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Silver	<0.62		0.62	0.16	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Sodium	700		120	18	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Thallium	<1.2		1.2	0.61	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Vanadium	27		0.62	0.15	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	1
Zinc	200		2.5	1.1	mg/Kg	☼	01/04/24 01:17	01/05/24 21:12	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		01/04/24 16:40	01/08/24 17:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/04/24 16:40	01/08/24 17:08	1
Chromium	<0.025		0.025	0.010	mg/L		01/04/24 16:40	01/08/24 17:08	1
Iron	2.0		0.40	0.20	mg/L		01/04/24 16:40	01/08/24 17:08	1

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Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-023A

Job ID: 500-244390-1

Client Sample ID: 3054V2-83-B02

Lab Sample ID: 500-244390-4

Date Collected: 12/26/23 11:00

Matrix: Solid

Date Received: 12/27/23 12:12

Percent Solids: 79.5

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		01/04/24 16:40	01/08/24 17:08	1
Manganese	0.64		0.025	0.010	mg/L		01/04/24 16:40	01/08/24 17:08	1
Nickel	0.013	J	0.025	0.010	mg/L		01/04/24 16:40	01/08/24 17:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.061		0.050	0.010	mg/L		01/03/24 18:47	01/08/24 17:07	1
Barium	1.0		0.50	0.050	mg/L		01/03/24 18:47	01/08/24 17:07	1
Beryllium	0.0098		0.0040	0.0040	mg/L		01/03/24 18:47	01/08/24 17:07	1
Boron	0.11		0.10	0.050	mg/L		01/03/24 18:47	01/08/24 17:07	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		01/03/24 18:47	01/08/24 17:07	1
Calcium	36	B	2.5	0.50	mg/L		01/03/24 18:47	01/08/24 17:07	1
Chromium	0.20		0.025	0.010	mg/L		01/03/24 18:47	01/08/24 17:07	1
Cobalt	0.051		0.025	0.010	mg/L		01/03/24 18:47	01/08/24 17:07	1
Iron	160		0.40	0.20	mg/L		01/03/24 18:47	01/08/24 17:07	1
Lead	0.21		0.0075	0.0075	mg/L		01/03/24 18:47	01/08/24 17:07	1
Manganese	1.9		0.025	0.010	mg/L		01/03/24 18:47	01/08/24 17:07	1
Nickel	0.16		0.025	0.010	mg/L		01/03/24 18:47	01/08/24 17:07	1
Potassium	25		2.5	0.50	mg/L		01/03/24 18:47	01/08/24 17:07	1
Selenium	<0.050		0.050	0.020	mg/L		01/03/24 18:47	01/08/24 17:07	1
Silver	<0.025		0.025	0.010	mg/L		01/03/24 18:47	01/08/24 17:07	1
Zinc	1.2		0.50	0.020	mg/L		01/03/24 18:47	01/08/24 17:07	1

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/04/24 16:40	01/10/24 22:35	1

Method: SW846 6020B - 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		01/03/24 18:47	01/09/24 02:56	1
Thallium	0.0022		0.0020	0.0020	mg/L		01/03/24 18:47	01/09/24 02:56	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		01/04/24 11:40	01/05/24 10:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.020	0.011	mg/Kg	⊛	01/05/24 14:25	01/08/24 08:05	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	⊛	01/06/24 12:44	01/06/24 14:50	1
pH (SW846 9045D)	8.2		0.2	0.2	SU			12/28/23 20:28	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-023A

Job ID: 500-244390-1

Qualifiers

GC/MS Semi 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.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery 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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE8-023A

Job ID: 500-244390-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-24

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

