Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1610 East Glenwood Dyer Road

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.53079 (Decimal Degrees) Longitude: -87.57575 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 129

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.53079 Longitude: - 87.57575

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 2900V-13-B05 WAS SAMPLED ADJACENT TO SITE 2900V-13. SEE TABLE 3d AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176198-1.

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 20, 2020
Date:

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

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-13
Farmstead

Sample ID	2900V-13-B05	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-3					
Sample Date	1/10/2020	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0					
Sample pH	6.3					
Matrix	Soil					
No Contaminants of Concern Noted.						

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176198-1
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/24/2020 1:38:14 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176198-1

Client Sample ID: 2900V-13-B05
Date Collected: 01/10/20 12:50
Date Received: 01/10/20 14:45

Lab Sample ID: 500-176198-7
Matrix: Solid
Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Chloroethane	<0.0046	*	0.0046	0.0014	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	01/10/20 17:20	01/16/20 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*01/10/20 17:20*	*01/16/20 19:50*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 131*	*01/10/20 17:20*	*01/16/20 19:50*	*1*
Dibromofluoromethane	*96*		*75 - 126*	*01/10/20 17:20*	*01/16/20 19:50*	*1*
Toluene-d8 (Surr)	*95*		*75 - 124*	*01/10/20 17:20*	*01/16/20 19:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176198-1

Client Sample ID: 2900V-13-B05
Date Collected: 01/10/20 12:50
Date Received: 01/10/20 14:45

Lab Sample ID: 500-176198-7
Matrix: Solid
Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176198-1

Client Sample ID: 2900V-13-B05
Date Collected: 01/10/20 12:50
Date Received: 01/10/20 14:45

Lab Sample ID: 500-176198-7
Matrix: Solid
Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	01/17/20 15:53	01/20/20 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*55*		*31 - 143*	*01/17/20 15:53*	*01/20/20 18:14*	*1*
2-Fluorobiphenyl	*63*		*43 - 145*	*01/17/20 15:53*	*01/20/20 18:14*	*1*
2-Fluorophenol	*77*		*31 - 166*	*01/17/20 15:53*	*01/20/20 18:14*	*1*
Nitrobenzene-d5	*62*		*37 - 147*	*01/17/20 15:53*	*01/20/20 18:14*	*1*
Phenol-d5	*74*		*30 - 153*	*01/17/20 15:53*	*01/20/20 18:14*	*1*
Terphenyl-d14	*90*		*42 - 157*	*01/17/20 15:53*	*01/20/20 18:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.87**	**J**	1.2	0.23	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Arsenic	**6.4**		0.59	0.20	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Barium	**99**		0.59	0.067	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Beryllium	**1.3**		0.24	0.055	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Boron	**9.6**		2.9	0.27	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Calcium	**2200**	**B**	12	2.0	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Chromium	**26**		0.59	0.29	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Cobalt	**14**		0.29	0.077	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Copper	**21**		0.59	0.16	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Iron	**26000**		12	6.1	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Lead	**12**		0.29	0.14	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Magnesium	**5100**		5.9	2.9	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Manganese	**330**		0.59	0.085	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Nickel	**40**		0.59	0.17	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Potassium	**3100**		29	10	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Selenium	**0.57**	**J ^**	0.59	0.35	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Silver	**4.7**	**B**	0.29	0.076	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Sodium	**1000**		59	8.7	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Thallium	**3.5**		0.59	0.29	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Vanadium	**29**		0.29	0.070	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1
Zinc	**71**	**B**	1.2	0.52	mg/Kg	☼	01/14/20 08:37	01/16/20 04:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/15/20 16:10	01/17/20 01:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/15/20 16:10	01/17/20 01:14	1
Chromium	<0.025		0.025	0.010	mg/L		01/15/20 16:10	01/17/20 01:14	1
Iron	<0.40		0.40	0.20	mg/L		01/15/20 16:10	01/17/20 01:14	1

Client Sample ID: 2900V-13-B05

Date Collected: 01/10/20 12:50
Date Received: 01/10/20 14:45

Lab Sample ID: 500-176198-7

Matrix: Solid
Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/15/20 16:10	01/17/20 01:14	1
Manganese	**1.0**		0.025	0.010	mg/L		01/15/20 16:10	01/17/20 01:14	1
Nickel	**0.025**		0.025	0.010	mg/L		01/15/20 16:10	01/17/20 01:14	1

Method: 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		01/15/20 16:06	01/17/20 17:03	1
Barium	**1.1**		0.50	0.050	mg/L		01/15/20 16:06	01/17/20 17:03	1
Beryllium	**0.013**		0.0040	0.0040	mg/L		01/15/20 16:06	01/17/20 17:03	1
Boron	**0.23**		0.10	0.050	mg/L		01/15/20 16:06	01/17/20 17:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/15/20 16:06	01/17/20 17:03	1
Calcium	**26**		2.5	0.50	mg/L		01/15/20 16:06	01/17/20 17:03	1
Chromium	**0.26**		0.025	0.010	mg/L		01/15/20 16:06	01/17/20 17:03	1
Cobalt	**0.067**		0.025	0.010	mg/L		01/15/20 16:06	01/17/20 17:03	1
Iron	**250**		0.40	0.20	mg/L		01/15/20 16:06	01/17/20 17:03	1
Lead	**0.28**		0.0075	0.0075	mg/L		01/15/20 16:06	01/17/20 17:03	1
Manganese	**0.84**		0.025	0.010	mg/L		01/15/20 16:06	01/17/20 17:03	1
Nickel	**0.39**		0.025	0.010	mg/L		01/15/20 16:06	01/17/20 17:03	1
Potassium	**39**		2.5	0.50	mg/L		01/15/20 16:06	01/17/20 17:03	1
Selenium	<0.050		0.050	0.020	mg/L		01/15/20 16:06	01/17/20 17:03	1
Silver	**0.027**		0.025	0.010	mg/L		01/15/20 16:06	01/17/20 17:03	1
Zinc	**0.70**	**B**	0.50	0.020	mg/L		01/15/20 16:06	01/17/20 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/15/20 16:10	01/21/20 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/15/20 16:06	01/16/20 15:10	1
Thallium	**0.0033**		0.0020	0.0020	mg/L		01/15/20 16:06	01/16/20 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00049**		0.00033	0.00033	mg/L		01/16/20 13:25	01/17/20 09:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.020	0.0066	mg/Kg	☼	01/16/20 12:20	01/17/20 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.29	mg/Kg	☼	01/20/20 10:20	01/20/20 14:25	1
pH	**6.3**		0.2	0.2	SU			01/17/20 14:53	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176198-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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
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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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 is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176198-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	04-30-20

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

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING

Client Contact

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

500-176198 COC

Laboratory

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

Project Name: AE7-32A
Project No.: PTB/WO:184-006/32A
TAT: [X] 15 BD [ ] 10 BD [ ] 5 BD [ ] 2 BD ___ Other
Sampler: Shawn Fritsche

COC No.: 1 of 1
Lab Job No.: 500-176198
Sample Temp: 4.1, 1.8, 3.5

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.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
1	2900V-13-B01-1	1/10	1615	S	X	X					X	X	X	X	X					
2	2900V-13-B01-2		1020																	
3	2900V-13-B02		1315																	
4	2900V-13-B03		1305																	
5	2900V-13-B03 DUP		1310																	
6	2900V-13-B04		1255																	
7	2900V-13-B05		1250																	
8	2900V-13-B06		1245																	
9	2900V-13-B07		1240																	

Relinquished by:	Date/Time 1/10 1445	Received by:	Date/Time 1/10/2020 1445
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1615 East Glenwood Dyer Road

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.53125 (Decimal Degrees) Longitude: -87.57747 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 566

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.53125 Longitude: - 87.57747

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 2900V-14-B01 AND 2900V-14-B02 WERE SAMPLED ADJACENT TO SITE 2900V-14. SEE TABLE 3e AND FIGURE 2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176200-6.

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 20, 2020
Date:

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

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-14
Vacant Land

Sample ID	2900V-14-B01	2900V-14-B02	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-5	0-5					
Sample Date	1/10/2020	1/10/2020	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0	0					
Sample pH	8.6	7.1					
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176200-6
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/27/2020 4:54:55 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176200-6

Client Sample ID: 2900V-14-B01
Date Collected: 01/10/20 10:35
Date Received: 01/10/20 14:45

Lab Sample ID: 500-176200-11
Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Acetone	**0.0088**	**J**	0.019	0.0083	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Ethylbenzene	<0.0019		0.0019	0.00092	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	01/10/20 17:20	01/20/20 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*01/10/20 17:20*	*01/20/20 18:47*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*01/10/20 17:20*	*01/20/20 18:47*	*1*
Dibromofluoromethane	*91*		*75 - 126*	*01/10/20 17:20*	*01/20/20 18:47*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*01/10/20 17:20*	*01/20/20 18:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176200-6

Client Sample ID: 2900V-14-B01
Date Collected: 01/10/20 10:35
Date Received: 01/10/20 14:45

Lab Sample ID: 500-176200-11
Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
2,4-Dimethylphenol	<0.38	*	0.38	0.14	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Benzo[a]anthracene	**0.0076**	**J**	0.038	0.0051	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Benzo[a]pyrene	**0.010**	**J**	0.038	0.0074	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Benzo[b]fluoranthene	**0.013**	**J**	0.038	0.0082	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Benzo[g,h,i]perylene	**0.012**	**J**	0.038	0.012	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Carbazole	<0.19	*	0.19	0.095	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Fluoranthene	**0.018**	**J**	0.038	0.0070	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176200-6

Client Sample ID: 2900V-14-B01
Date Collected: 01/10/20 10:35
Date Received: 01/10/20 14:45

Lab Sample ID: 500-176200-11
Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1
Pyrene	**0.031**	**J**	0.038	0.0076	mg/Kg	☼	01/21/20 17:22	01/22/20 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*50*		*31 - 143*	*01/21/20 17:22*	*01/22/20 20:06*	*1*
2-Fluorobiphenyl	*53*		*43 - 145*	*01/21/20 17:22*	*01/22/20 20:06*	*1*
2-Fluorophenol	*89*		*31 - 166*	*01/21/20 17:22*	*01/22/20 20:06*	*1*
Nitrobenzene-d5	*73*		*37 - 147*	*01/21/20 17:22*	*01/22/20 20:06*	*1*
Phenol-d5	*76*		*30 - 153*	*01/21/20 17:22*	*01/22/20 20:06*	*1*
Terphenyl-d14	*62*		*42 - 157*	*01/21/20 17:22*	*01/22/20 20:06*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.0**	**J**	5.8	1.1	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Arsenic	**10**		2.9	1.0	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Barium	**160**		2.9	0.33	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Beryllium	**1.2**		1.2	0.27	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Boron	**15**		15	1.4	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Cadmium	**0.11**	**J**	0.58	0.11	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Calcium	**2800**	**B**	58	9.9	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Chromium	**30**		2.9	1.4	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Cobalt	**13**		0.29	0.076	mg/Kg	☼	01/13/20 06:37	01/17/20 07:26	1
Copper	**22**		2.9	0.82	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Iron	**29000**		58	30	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Lead	**12**		0.29	0.13	mg/Kg	☼	01/13/20 06:37	01/17/20 07:26	1
Magnesium	**6100**		29	14	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Manganese	**360**	**B**	2.9	0.42	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Nickel	**55**		0.58	0.17	mg/Kg	☼	01/13/20 06:37	01/17/20 07:26	1
Potassium	**3500**		150	52	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Selenium	<2.9		2.9	1.7	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Silver	**5.3**		1.5	0.38	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Sodium	**230**	**J**	290	43	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Thallium	**3.5**		0.58	0.29	mg/Kg	☼	01/13/20 06:37	01/17/20 07:26	1
Vanadium	**37**		1.5	0.34	mg/Kg	☼	01/13/20 06:37	01/18/20 00:15	5
Zinc	**63**		1.2	0.51	mg/Kg	☼	01/13/20 06:37	01/17/20 07:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.82**		0.40	0.20	mg/L		01/15/20 16:07	01/16/20 19:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/15/20 16:07	01/16/20 19:35	1
Manganese	**0.16**		0.025	0.010	mg/L		01/15/20 16:07	01/16/20 19:35	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176200-6

Client Sample ID: 2900V-14-B01
Date Collected: 01/10/20 10:35
Date Received: 01/10/20 14:45

Lab Sample ID: 500-176200-11
Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.028**	**J**	0.050	0.010	mg/L		01/15/20 16:04	01/16/20 21:48	1
Barium	**0.36**	**J**	0.50	0.050	mg/L		01/15/20 16:04	01/16/20 21:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/15/20 16:04	01/16/20 21:48	1
Boron	**0.12**		0.10	0.050	mg/L		01/15/20 16:04	01/16/20 21:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/15/20 16:04	01/16/20 21:48	1
Calcium	**21**		2.5	0.50	mg/L		01/15/20 16:04	01/16/20 21:48	1
Chromium	**0.093**		0.025	0.010	mg/L		01/15/20 16:04	01/16/20 21:48	1
Cobalt	**0.016**	**J**	0.025	0.010	mg/L		01/15/20 16:04	01/16/20 21:48	1
Iron	**87**		0.40	0.20	mg/L		01/15/20 16:04	01/16/20 21:48	1
Lead	**0.033**		0.0075	0.0075	mg/L		01/15/20 16:04	01/16/20 21:48	1
Manganese	**0.25**		0.025	0.010	mg/L		01/15/20 16:04	01/16/20 21:48	1
Nickel	**0.074**		0.025	0.010	mg/L		01/15/20 16:04	01/16/20 21:48	1
Potassium	**16**		2.5	0.50	mg/L		01/15/20 16:04	01/16/20 21:48	1
Selenium	<0.050		0.050	0.020	mg/L		01/15/20 16:04	01/16/20 21:48	1
Silver	<0.025		0.025	0.010	mg/L		01/15/20 16:04	01/16/20 21:48	1
Zinc	**0.22**	**J B**	0.50	0.020	mg/L		01/15/20 16:04	01/16/20 21:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/15/20 16:04	01/16/20 14:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/15/20 16:04	01/16/20 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/17/20 11:00	01/20/20 09:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.019	0.0063	mg/Kg	☼	01/17/20 14:20	01/20/20 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.24	mg/Kg	☼	01/21/20 09:05	01/21/20 13:05	1
pH	**8.6**		0.2	0.2	SU			01/17/20 15:27	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176200-6

Client Sample ID: 2900V-14-B02
Date Collected: 01/10/20 11:35
Date Received: 01/10/20 14:45

Lab Sample ID: 500-176200-12
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1
Xylenes, Total	<0.0035		0.0035	0.00057	mg/Kg	☼	01/10/20 17:20	01/20/20 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*	*01/10/20 17:20*	*01/20/20 19:13*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*01/10/20 17:20*	*01/20/20 19:13*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*01/10/20 17:20*	*01/20/20 19:13*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*01/10/20 17:20*	*01/20/20 19:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176200-6

Client Sample ID: 2900V-14-B02
Date Collected: 01/10/20 11:35
Date Received: 01/10/20 14:45

Lab Sample ID: 500-176200-12
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
2,4-Dimethylphenol	<0.39	*	0.39	0.15	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Carbazole	<0.20	*	0.20	0.098	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Di-n-butyl phthalate	**0.075**	**J**	0.20	0.060	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Fluoranthene	**0.017**	**J**	0.039	0.0073	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1

Client Sample ID: 2900V-14-B02
Date Collected: 01/10/20 11:35
Date Received: 01/10/20 14:45

Lab Sample ID: 500-176200-12
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Phenanthrene	**0.013**	**J**	0.039	0.0055	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1
Pyrene	**0.031**	**J**	0.039	0.0078	mg/Kg	☼	01/21/20 17:22	01/22/20 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*54*		*31 - 143*	*01/21/20 17:22*	*01/22/20 20:35*	*1*
2-Fluorobiphenyl	*56*		*43 - 145*	*01/21/20 17:22*	*01/22/20 20:35*	*1*
2-Fluorophenol	*91*		*31 - 166*	*01/21/20 17:22*	*01/22/20 20:35*	*1*
Nitrobenzene-d5	*64*		*37 - 147*	*01/21/20 17:22*	*01/22/20 20:35*	*1*
Phenol-d5	*79*		*30 - 153*	*01/21/20 17:22*	*01/22/20 20:35*	*1*
Terphenyl-d14	*95*		*42 - 157*	*01/21/20 17:22*	*01/22/20 20:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	**2.8**		0.40	0.15	mg/Kg	☼	01/21/20 17:22	01/23/20 19:38	2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.39**	**J**	1.1	0.22	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Arsenic	**5.5**		0.57	0.20	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Barium	**53**		0.57	0.065	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Beryllium	**0.76**		0.23	0.053	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Boron	**20**		2.9	0.27	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Cadmium	**0.075**	**J**	0.11	0.021	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Calcium	**64000**	**B**	110	19	mg/Kg	☼	01/13/20 06:37	01/17/20 09:59	10
Chromium	**19**		0.57	0.28	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Cobalt	**11**		0.29	0.075	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Copper	**16**		0.57	0.16	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Iron	**18000**		11	5.9	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Lead	**6.3**		0.29	0.13	mg/Kg	☼	01/13/20 06:37	01/17/20 09:57	1
Magnesium	**22000**		5.7	2.8	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Manganese	**330**	**B**	0.57	0.083	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Nickel	**28**		0.57	0.17	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Potassium	**3900**		29	10	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Silver	**2.8**		0.29	0.074	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Sodium	**500**		57	8.5	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Thallium	**1.4**		0.57	0.29	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Vanadium	**24**		0.29	0.067	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1
Zinc	**51**		1.1	0.50	mg/Kg	☼	01/13/20 06:37	01/17/20 07:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/15/20 16:07	01/16/20 19:48	1

Client Sample ID: 2900V-14-B02
Date Collected: 01/10/20 11:35
Date Received: 01/10/20 14:45

Lab Sample ID: 500-176200-12
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/15/20 16:07	01/16/20 19:48	1
Chromium	<0.025		0.025	0.010	mg/L		01/15/20 16:07	01/16/20 19:48	1
Iron	<0.40		0.40	0.20	mg/L		01/15/20 16:07	01/16/20 19:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/15/20 16:07	01/16/20 19:48	1
Manganese	**0.59**		0.025	0.010	mg/L		01/15/20 16:07	01/16/20 19:48	1
Nickel	<0.025		0.025	0.010	mg/L		01/15/20 16:07	01/16/20 19:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.064**		0.050	0.010	mg/L		01/15/20 16:04	01/16/20 21:52	1
Barium	**0.54**		0.50	0.050	mg/L		01/15/20 16:04	01/16/20 21:52	1
Beryllium	**0.0070**		0.0040	0.0040	mg/L		01/15/20 16:04	01/16/20 21:52	1
Boron	**0.21**		0.10	0.050	mg/L		01/15/20 16:04	01/16/20 21:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/15/20 16:04	01/16/20 21:52	1
Calcium	**88**		2.5	0.50	mg/L		01/15/20 16:04	01/16/20 21:52	1
Chromium	**0.16**		0.025	0.010	mg/L		01/15/20 16:04	01/16/20 21:52	1
Cobalt	**0.046**		0.025	0.010	mg/L		01/15/20 16:04	01/16/20 21:52	1
Iron	**160**		0.40	0.20	mg/L		01/15/20 16:04	01/16/20 21:52	1
Lead	**0.059**		0.0075	0.0075	mg/L		01/15/20 16:04	01/16/20 21:52	1
Manganese	**0.80**		0.025	0.010	mg/L		01/15/20 16:04	01/16/20 21:52	1
Nickel	**0.19**		0.025	0.010	mg/L		01/15/20 16:04	01/16/20 21:52	1
Potassium	**37**		2.5	0.50	mg/L		01/15/20 16:04	01/16/20 21:52	1
Selenium	<0.050		0.050	0.020	mg/L		01/15/20 16:04	01/16/20 21:52	1
Silver	**0.015**	**J**	0.025	0.010	mg/L		01/15/20 16:04	01/16/20 21:52	1
Zinc	**0.74**	**B**	0.50	0.020	mg/L		01/15/20 16:04	01/16/20 21:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/15/20 16:07	01/20/20 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/15/20 16:04	01/16/20 14:14	1
Thallium	**0.0027**		0.0020	0.0020	mg/L		01/15/20 16:04	01/16/20 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/17/20 11:00	01/20/20 10:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0074**	**J**	0.018	0.0061	mg/Kg	☼	01/17/20 14:20	01/20/20 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.47		0.47	0.24	mg/Kg	☼	01/21/20 09:05	01/21/20 13:05	1
pH	**7.1**		0.2	0.2	SU			01/17/20 15:29	1

Definitions/Glossary

Client: Andrews Engineering Inc. Job ID: 500-176200-6
Project/Site: IDOT - AE7-032

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc. Job ID: 500-176200-6
Project/Site: IDOT - AE7-032

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	04-30-20

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

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: AE7-32A Project No.: PTB/No. 184-006/32A TAT: [X] 15 BD [ ] 10 BD [ ] 5 BD [ ] 2 BD ____ Other Sampler: Shaun Fritsche

COC No.: 1 of 1

Lab Job No.: 500-176200

Sample Temp: 1.8, 3.5 48hr.

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.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
11	2900V-14-1301	1/10	1035	S	X	X					X	X	X	X	X					
12	2900V-14-1302	1/10	1135	↓	↓	↓					↓	↓	↓	↓	↓					

Relinquished by:	Date/Time	Received by:	Date/Time
[signature]	1/10 1445	[signature]	1/10/2020 1445
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1715-1795 East Glenwood Dyer Road

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52977 (Decimal Degrees) Longitude: -87.57386 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 308

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52977 Longitude: - 87.57386

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 2900V-26-B02 AND 2900V-26-B04 WERE SAMPLED ADJACENT TO SITE 2900V-26. SEE TABLE 3h AND FIGURE 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176260-1.

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 20, 2020
Date:

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

LICENSED PROFESSIONAL GEOLOGIST
SAVO RADULOVIC
196-001303
ILLINOIS

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-26
Residence

Sample ID	2900V-26-B02	2900V-26-B04	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-4	0-4					
Sample Date	1/13/2020	1/13/2020	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0	0					
Sample pH	7.4	7.4					
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176260-1
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/28/2020 5:08:30 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: 2900V-26-B02 **Lab Sample ID: 500-176260-1**
Date Collected: 01/13/20 13:10 **Matrix: Solid**
Date Received: 01/13/20 16:33 **Percent Solids: 76.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
2-Butanone (MEK)	**0.0052**		0.0048	0.0021	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Acetone	**0.029**		0.019	0.0083	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Chloroethane	<0.0048	*	0.0048	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00085	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Vinyl chloride	<0.0019		0.0019	0.00085	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	01/14/20 17:12	01/21/20 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*01/14/20 17:12*	*01/21/20 15:17*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*01/14/20 17:12*	*01/21/20 15:17*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*01/14/20 17:12*	*01/21/20 15:17*	*1*
Toluene-d8 (Surr)	*95*		*75 - 124*	*01/14/20 17:12*	*01/21/20 15:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
2,2'-oxybis[1-chloropropane]	<0.21	*	0.21	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1

Client Sample ID: 2900V-26-B02
Date Collected: 01/13/20 13:10
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-1
Matrix: Solid
Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
2-Methylnaphthalene	<0.085		0.085	0.0078	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Benzo[a]anthracene	**0.0061**	**J**	0.042	0.0057	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Bis(2-chloroethyl)ether	<0.21	*	0.21	0.063	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Fluoranthene	**0.0094**	**J**	0.042	0.0078	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-1

Client Sample ID: 2900V-26-B02
Date Collected: 01/13/20 13:10
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-1
Matrix: Solid
Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.052	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Phenanthrene	**0.0075**	**J**	0.042	0.0059	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1
Pyrene	**0.0084**	**J**	0.042	0.0084	mg/Kg	☼	01/22/20 15:00	01/23/20 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*106*		*31 - 143*	*01/22/20 15:00*	*01/23/20 12:58*	*1*
2-Fluorobiphenyl	*102*		*43 - 145*	*01/22/20 15:00*	*01/23/20 12:58*	*1*
2-Fluorophenol	*122*		*31 - 166*	*01/22/20 15:00*	*01/23/20 12:58*	*1*
Nitrobenzene-d5	*100*		*37 - 147*	*01/22/20 15:00*	*01/23/20 12:58*	*1*
Phenol-d5	*122*		*30 - 153*	*01/22/20 15:00*	*01/23/20 12:58*	*1*
Terphenyl-d14	*131*		*42 - 157*	*01/22/20 15:00*	*01/23/20 12:58*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.83**	**J B F1**	1.2	0.24	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Arsenic	**7.9**	**F1**	0.61	0.21	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Barium	**89**		0.61	0.069	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Beryllium	**0.89**		0.24	0.057	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Boron	**9.4**	**B F1**	3.0	0.28	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Cadmium	**0.16**	**B**	0.12	0.022	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Calcium	**9900**	**B**	12	2.1	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Chromium	**21**		0.61	0.30	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Cobalt	**13**		0.30	0.079	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Copper	**20**		0.61	0.17	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Iron	**21000**	**B**	12	6.3	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Lead	**23**	**F1**	0.30	0.14	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Magnesium	**8900**		6.1	3.0	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Manganese	**290**		0.61	0.088	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Nickel	**26**		0.61	0.18	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Potassium	**2500**		30	11	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Silver	**3.3**		0.30	0.078	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Sodium	**2200**		61	9.0	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Thallium	**1.8**		0.61	0.30	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Vanadium	**28**		0.30	0.072	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1
Zinc	**73**		1.2	0.53	mg/Kg	☼	01/16/20 16:26	01/18/20 04:05	1

Method: 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		01/20/20 07:53	01/20/20 19:44	1
Barium	**0.49**	**J**	0.50	0.050	mg/L		01/20/20 07:53	01/20/20 19:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:53	01/20/20 19:44	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 19:44	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-1

Client Sample ID: 2900V-26-B02
Date Collected: 01/13/20 13:10
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-1
Matrix: Solid
Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		01/20/20 07:53	01/20/20 19:44	1
Lead	**0.010**		0.0075	0.0075	mg/L		01/20/20 07:53	01/20/20 19:44	1
Manganese	**7.9**		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 19:44	1
Nickel	**0.015**	**J**	0.025	0.010	mg/L		01/20/20 07:53	01/20/20 19:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.075**		0.050	0.010	mg/L		01/20/20 07:46	01/21/20 19:34	1
Barium	**2.6**		0.50	0.050	mg/L		01/20/20 07:46	01/20/20 17:48	1
Beryllium	**0.027**		0.0040	0.0040	mg/L		01/20/20 07:46	01/20/20 17:48	1
Boron	**0.42**		0.10	0.050	mg/L		01/20/20 07:46	01/20/20 17:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/20 07:46	01/21/20 19:34	1
Calcium	**15**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 17:48	1
Chromium	**0.49**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 17:48	1
Cobalt	**0.079**		0.025	0.010	mg/L		01/20/20 07:46	01/21/20 19:34	1
Iron	**320**		0.40	0.20	mg/L		01/20/20 07:46	01/20/20 17:48	1
Lead	**0.16**		0.0075	0.0075	mg/L		01/20/20 07:46	01/21/20 19:34	1
Manganese	**2.2**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 17:48	1
Nickel	**0.20**		0.025	0.010	mg/L		01/20/20 07:46	01/21/20 19:34	1
Potassium	**240**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 17:48	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/20 07:46	01/21/20 19:34	1
Silver	**0.033**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 17:48	1
Zinc	**0.54**		0.50	0.020	mg/L		01/20/20 07:46	01/20/20 17:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:53	01/21/20 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/20/20 07:46	01/20/20 20:10	1
Thallium	**0.0029**		0.0020	0.0020	mg/L		01/20/20 07:46	01/21/20 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00031**		0.00020	0.00020	mg/L		01/21/20 14:00	01/22/20 10:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.020	0.0066	mg/Kg	☼	01/20/20 14:10	01/21/20 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.27	mg/Kg	☼	01/22/20 09:50	01/22/20 14:25	1
pH	**7.4**		0.2	0.2	SU			01/21/20 09:56	1

Client Sample ID: 2900V-26-B04

Date Collected: 01/13/20 13:20
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-3

Matrix: Solid
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Acetone	**0.050**		0.019	0.0082	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Chloroethane	<0.0047	*	0.0047	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	01/14/20 17:12	01/21/20 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*01/14/20 17:12*	*01/21/20 16:07*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*01/14/20 17:12*	*01/21/20 16:07*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*01/14/20 17:12*	*01/21/20 16:07*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*01/14/20 17:12*	*01/21/20 16:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
2,2'-oxybis[1-chloropropane]	<0.21	*	0.21	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1

Client Sample ID: 2900V-26-B04
Date Collected: 01/13/20 13:20
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-3
Matrix: Solid
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
2-Methylnaphthalene	<0.084		0.084	0.0077	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Anthracene	<0.041		0.041	0.0070	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Benzo[a]pyrene	<0.041		0.041	0.0081	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Bis(2-chloroethyl)ether	<0.21	*	0.21	0.062	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0081	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-1

Client Sample ID: 2900V-26-B04
Date Collected: 01/13/20 13:20
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-3
Matrix: Solid
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1
Pyrene	<0.041		0.041	0.0083	mg/Kg	☼	01/22/20 15:00	01/23/20 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*31 - 143*	*01/22/20 15:00*	*01/23/20 13:46*	*1*
2-Fluorobiphenyl	*87*		*43 - 145*	*01/22/20 15:00*	*01/23/20 13:46*	*1*
2-Fluorophenol	*105*		*31 - 166*	*01/22/20 15:00*	*01/23/20 13:46*	*1*
Nitrobenzene-d5	*86*		*37 - 147*	*01/22/20 15:00*	*01/23/20 13:46*	*1*
Phenol-d5	*109*		*30 - 153*	*01/22/20 15:00*	*01/23/20 13:46*	*1*
Terphenyl-d14	*132*		*42 - 157*	*01/22/20 15:00*	*01/23/20 13:46*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.92**	**J B**	1.2	0.24	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Arsenic	**7.9**		0.61	0.21	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Barium	**110**		0.61	0.070	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Beryllium	**0.96**		0.24	0.057	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Boron	**9.6**	**B**	3.1	0.29	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Cadmium	**0.058**	**J B**	0.12	0.022	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Calcium	**2300**	**B**	12	2.1	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Chromium	**24**		0.61	0.30	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Cobalt	**14**		0.31	0.080	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Copper	**18**		0.61	0.17	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Iron	**25000**	**B**	12	6.4	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Lead	**15**		0.31	0.14	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Magnesium	**5000**		6.1	3.0	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Manganese	**260**		0.61	0.089	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Nickel	**34**		0.61	0.18	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Potassium	**2700**		31	11	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Silver	**4.0**		0.31	0.079	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Sodium	**960**		61	9.1	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Thallium	**2.4**		0.61	0.31	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Vanadium	**33**		0.31	0.072	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1
Zinc	**58**		1.2	0.54	mg/Kg	☼	01/16/20 16:26	01/18/20 04:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/20/20 07:53	01/20/20 19:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:53	01/20/20 19:52	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 19:52	1
Iron	**2.8**		0.40	0.20	mg/L		01/20/20 07:53	01/20/20 19:52	1

Client Sample ID: 2900V-26-B04 **Lab Sample ID: 500-176260-3**
Date Collected: 01/13/20 13:20 **Matrix: Solid**
Date Received: 01/13/20 16:33 **Percent Solids: 78.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0079		0.0075	0.0075	mg/L		01/20/20 07:53	01/20/20 19:52	1
Manganese	4.6		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 19:52	1
Nickel	0.029		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.050		0.050	0.010	mg/L		01/20/20 07:46	01/21/20 19:38	1
Barium	1.2		0.50	0.050	mg/L		01/20/20 07:46	01/20/20 17:56	1
Beryllium	0.012		0.0040	0.0040	mg/L		01/20/20 07:46	01/20/20 17:56	1
Boron	0.28		0.10	0.050	mg/L		01/20/20 07:46	01/20/20 17:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/20 07:46	01/21/20 19:38	1
Calcium	19		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 17:56	1
Chromium	0.26		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 17:56	1
Cobalt	0.081		0.025	0.010	mg/L		01/20/20 07:46	01/21/20 19:38	1
Iron	190		0.40	0.20	mg/L		01/20/20 07:46	01/20/20 17:56	1
Lead	0.095		0.0075	0.0075	mg/L		01/20/20 07:46	01/21/20 19:38	1
Manganese	1.6		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 17:56	1
Nickel	0.21		0.025	0.010	mg/L		01/20/20 07:46	01/21/20 19:38	1
Potassium	56		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 17:56	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/20 07:46	01/20/20 17:56	1
Silver	0.024	J	0.025	0.010	mg/L		01/20/20 07:46	01/20/20 17:56	1
Zinc	0.40	J	0.50	0.020	mg/L		01/20/20 07:46	01/20/20 17:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:53	01/21/20 18:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/20/20 07:46	01/20/20 20:14	1
Thallium	0.0022		0.0020	0.0020	mg/L		01/20/20 07:46	01/21/20 11:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00029		0.00020	0.00020	mg/L		01/21/20 14:00	01/22/20 11:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.020	0.0066	mg/Kg	☼	01/20/20 14:10	01/21/20 09:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.29	mg/Kg	☼	01/22/20 09:50	01/22/20 14:27	1
pH	7.4		0.2	0.2	SU			01/21/20 10:06	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
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 is outside acceptance 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. The data are considered valid because the absolute difference is less than the RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc. Job ID: 500-176260-1
Project/Site: IDOT - AE7-032

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-1

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-1

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-1

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

ANDREWS ENGINEERING

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

500-176260 COC

Laboratory

Lab: [redacted] Test America
Address: [redacted]
Phone: [redacted]
Contact: [redacted]
email: [redacted]

Project Name: AE738A 2
Project No.: PTB/WO: 184-006/32A
TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other
Sampler: Chad Welson

COC No.: 1 of 1
Lab Job No.: 500-176260
Sample Temp: 2.7, 3.1

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.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
1	2900V-26-B02	1/13/20	1310	S	X	X					X	X	X	X	X					
2	2900V-26-B03	1/13/20	1315	S	X	X					X	X	X	X	X					
3	2900V-26-B04	1/13/20	1320	S	X	X					X	X	X	X	X					

Relinquished by: [signature]	Date/Time 1/13 1633	Received by: Stephanie Hernandez TA	Date/Time 1-13-20 1633
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1728 East Glenwood Dyer Road

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.53015 (Decimal Degrees) Longitude: -87.57414 (-Decimal Degrees)

Identify how the lat/long data were determined:

◯ GPS ⊘ Map Interpolation ◯ Photo Interpolation ◯ Survey ◯ Other

IEPA Site Number(s), if assigned: BOL: 0311685043 BOW: BOA:

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 239

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.53015 Longitude: - 87.57414

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 2900V-28-B01 WAS SAMPLED ADJACENT TO SITE 2900V-28. SEE TABLE 3j AND FIGURE 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176260-3.

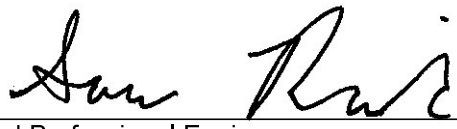
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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 20, 2020
Date:

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

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-28
Residence

Sample ID	2900V-28-B01	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-7					
Sample Date	1/13/2020	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0					
Sample pH	8.2					
Matrix	Soil					
No Contaminants of Concern Noted.						

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176260-3
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/28/2020 5:09:20 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: 2900V-28-B01 **Lab Sample ID: 500-176260-6**
Date Collected: 01/13/20 13:05 **Matrix: Solid**
Date Received: 01/13/20 16:33 **Percent Solids: 79.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Chloroethane	<0.0043	*	0.0043	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*01/14/20 17:12*	*01/21/20 17:23*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*01/14/20 17:12*	*01/21/20 17:23*	*1*
Dibromofluoromethane	*88*		*75 - 126*	*01/14/20 17:12*	*01/21/20 17:23*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*01/14/20 17:12*	*01/21/20 17:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
2,2'-oxybis[1-chloropropane]	<0.21	* F1	0.21	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1

Client Sample ID: 2900V-28-B01
Date Collected: 01/13/20 13:05
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-6
Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
2-Methylnaphthalene	<0.084	F1	0.084	0.0076	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
3 & 4 Methylphenol	<0.21	F1	0.21	0.069	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
4-Chloroaniline	<0.84	F1	0.84	0.19	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
4-Nitrophenol	<0.84		0.84	0.39	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Benzo[g,h,i]perylene	<0.041	F1	0.041	0.013	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Benzo[k]fluoranthene	<0.041	F1	0.041	0.012	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Bis(2-chloroethoxy)methane	<0.21	F1	0.21	0.042	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Bis(2-chloroethyl)ether	<0.21	* F1	0.21	0.062	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-3

Client Sample ID: 2900V-28-B01
Date Collected: 01/13/20 13:05
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-6
Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	01/22/20 15:00	01/23/20 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*75*		*31 - 143*	*01/22/20 15:00*	*01/23/20 14:35*	*1*
2-Fluorobiphenyl	*90*		*43 - 145*	*01/22/20 15:00*	*01/23/20 14:35*	*1*
2-Fluorophenol	*107*		*31 - 166*	*01/22/20 15:00*	*01/23/20 14:35*	*1*
Nitrobenzene-d5	*91*		*37 - 147*	*01/22/20 15:00*	*01/23/20 14:35*	*1*
Phenol-d5	*106*		*30 - 153*	*01/22/20 15:00*	*01/23/20 14:35*	*1*
Terphenyl-d14	*119*		*42 - 157*	*01/22/20 15:00*	*01/23/20 14:35*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.85**	**J B**	1.2	0.23	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Arsenic	**6.2**		0.59	0.20	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Barium	**86**		0.59	0.068	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Beryllium	**0.73**		0.24	0.055	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Boron	**7.3**	**B**	3.0	0.28	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Cadmium	**0.039**	**J B**	0.12	0.021	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Calcium	**8000**	**B**	12	2.0	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Chromium	**19**		0.59	0.29	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Cobalt	**13**		0.30	0.078	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Copper	**14**		0.59	0.17	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Iron	**19000**	**B**	12	6.2	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Lead	**15**		0.30	0.14	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Magnesium	**6400**		5.9	2.9	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Manganese	**470**		0.59	0.086	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Nickel	**20**		0.59	0.17	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Potassium	**2100**		30	11	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Silver	**3.3**		0.30	0.077	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Sodium	**800**		59	8.8	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Thallium	**2.1**		0.59	0.30	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Vanadium	**29**		0.30	0.070	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1
Zinc	**57**		1.2	0.52	mg/Kg	☼	01/16/20 16:26	01/18/20 04:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:53	01/20/20 20:01	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:01	1
Iron	<0.40		0.40	0.20	mg/L		01/20/20 07:53	01/20/20 20:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:53	01/20/20 20:01	1

Client Sample ID: 2900V-28-B01
Date Collected: 01/13/20 13:05
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-6
Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.028**		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:01	1
Nickel	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:01	1

Method: 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		01/20/20 07:46	01/21/20 19:45	1
Barium	**0.98**		0.50	0.050	mg/L		01/20/20 07:46	01/20/20 18:04	1
Beryllium	**0.010**		0.0040	0.0040	mg/L		01/20/20 07:46	01/20/20 18:04	1
Boron	**0.23**		0.10	0.050	mg/L		01/20/20 07:46	01/20/20 18:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/20 07:46	01/21/20 19:45	1
Calcium	**24**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:04	1
Chromium	**0.24**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:04	1
Cobalt	**0.027**		0.025	0.010	mg/L		01/20/20 07:46	01/21/20 19:45	1
Iron	**170**		0.40	0.20	mg/L		01/20/20 07:46	01/20/20 18:04	1
Lead	**0.076**		0.0075	0.0075	mg/L		01/20/20 07:46	01/21/20 19:45	1
Manganese	**0.48**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:04	1
Nickel	**0.11**		0.025	0.010	mg/L		01/20/20 07:46	01/21/20 19:45	1
Potassium	**66**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:04	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/20 07:46	01/20/20 18:04	1
Silver	**0.014**	**J**	0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:04	1
Zinc	**0.40**	**J**	0.50	0.020	mg/L		01/20/20 07:46	01/20/20 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/20/20 07:46	01/20/20 20:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:46	01/21/20 11:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00021**		0.00020	0.00020	mg/L		01/21/20 14:00	01/22/20 11:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J**	0.020	0.0067	mg/Kg	☼	01/20/20 14:10	01/21/20 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.30	mg/Kg	☼	01/22/20 09:50	01/22/20 14:28	1
pH	**8.2**		0.2	0.2	SU			01/21/20 10:11	1

Definitions/Glossary

Client: Andrews Engineering Inc. Job ID: 500-176260-3
Project/Site: IDOT - AE7-032

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-3

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-3

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-3

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-3

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: AET-32A Project No.: PTB/WO: 184-006/32A TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other Chad Nelson **Sampler:**

COC No.: 1 of 1

Lab Job No.: 500-176260

Sample Temp: 2.7, 3.1

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.

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
6	2900W-28-B01	1/13	1305	S	X	X					X	X	X	X	X					
	~~2900W-28-B02~~	~~1/13~~	~~1265~~	↓	↓	↓					↓	↓	↓	↓	↓	RCW		1/14		SAMPLE NOT COLLECTED.

Relinquished by:	Date/Time	Received by:	Date/Time
[signature]	1/13 1633	Stephanie Hernandez 1A	1-13-20 1633
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1830-1850 East Glenwood Dyer Road

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52951 (Decimal Degrees) Longitude: -87.57261 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 631

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52951 Longitude: - 87.57261

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 2900V-29-B01 AND 2900V-29-B02 WERE SAMPLED ADJACENT TO SITE 2900V-29. SEE TABLE 3k AND FIGURE 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176260-4.

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 20, 2020
Date:

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-29
Commercial Buildings

Sample ID	2900V-29-B01	2900V-29-B02	2900V-29-B02 DUP	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-7	0-7	0-7					
Sample Date	1/13/2020	1/13/2020	1/13/2020					
PID	0	0	0					
Sample pH	7.5	7.7	7.9	[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
Matrix	Soil	Soil	Soil					
No Contaminants of Concern Noted.								

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176260-4
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/28/2020 5:09:38 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-4

Client Sample ID: 2900V-29-B01
Date Collected: 01/13/20 12:30
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-7
Matrix: Solid
Percent Solids: 85.2

Method: 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	☼	01/14/20 17:12	01/21/20 17:48	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00071	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
1,1-Dichloroethene	<0.0016		0.0016	0.00057	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
1,2-Dichloropropane	<0.0016		0.0016	0.00043	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00058	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Acetone	<0.016		0.016	0.0072	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Bromodichloromethane	<0.0016		0.0016	0.00034	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Carbon tetrachloride	<0.0016		0.0016	0.00048	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Chlorobenzene	<0.0016		0.0016	0.00061	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Chloroethane	<0.0041	*	0.0041	0.0012	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00050	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Dibromochloromethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Ethylbenzene	<0.0016		0.0016	0.00079	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Styrene	<0.0016		0.0016	0.00050	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Toluene	<0.0016		0.0016	0.00042	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00073	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00058	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Trichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Vinyl chloride	<0.0016		0.0016	0.00073	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	01/14/20 17:12	01/21/20 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*	*01/14/20 17:12*	*01/21/20 17:48*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*01/14/20 17:12*	*01/21/20 17:48*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*01/14/20 17:12*	*01/21/20 17:48*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*01/14/20 17:12*	*01/21/20 17:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
2,2'-oxybis[1-chloropropane]	<0.19	*	0.19	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1

Client Sample ID: 2900V-29-B01
Date Collected: 01/13/20 12:30
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-7
Matrix: Solid
Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Bis(2-chloroethyl)ether	<0.19	*	0.19	0.056	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-4

Client Sample ID: 2900V-29-B01
Date Collected: 01/13/20 12:30
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-7
Matrix: Solid
Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	01/22/20 15:00	01/23/20 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*31 - 143*	*01/22/20 15:00*	*01/23/20 14:59*	*1*
2-Fluorobiphenyl	*98*		*43 - 145*	*01/22/20 15:00*	*01/23/20 14:59*	*1*
2-Fluorophenol	*111*		*31 - 166*	*01/22/20 15:00*	*01/23/20 14:59*	*1*
Nitrobenzene-d5	*97*		*37 - 147*	*01/22/20 15:00*	*01/23/20 14:59*	*1*
Phenol-d5	*112*		*30 - 153*	*01/22/20 15:00*	*01/23/20 14:59*	*1*
Terphenyl-d14	*127*		*42 - 157*	*01/22/20 15:00*	*01/23/20 14:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.63**	**J B**	1.1	0.22	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Arsenic	**8.0**		0.56	0.19	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Barium	**62**		0.56	0.063	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Beryllium	**0.84**		0.22	0.052	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Boron	**16**	**B**	2.8	0.26	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Cadmium	**0.073**	**J B**	0.11	0.020	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Calcium	**57000**	**B**	110	19	mg/Kg	☼	01/16/20 16:26	01/20/20 10:40	10
Chromium	**19**		0.56	0.27	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Cobalt	**12**		0.28	0.073	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Copper	**19**		0.56	0.16	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Iron	**22000**	**B**	11	5.8	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Lead	**7.0**		0.28	0.13	mg/Kg	☼	01/16/20 16:26	01/20/20 10:36	1
Magnesium	**23000**		5.6	2.8	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Manganese	**350**		0.56	0.081	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Nickel	**31**		0.56	0.16	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Potassium	**3500**		28	9.8	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Silver	**3.1**		0.28	0.072	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Sodium	**640**		56	8.2	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Thallium	**1.1**		0.56	0.28	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Vanadium	**24**		0.28	0.066	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1
Zinc	**54**		1.1	0.49	mg/Kg	☼	01/16/20 16:26	01/18/20 04:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:53	01/20/20 21:44	1
Iron	<0.40		0.40	0.20	mg/L		01/20/20 07:53	01/20/20 21:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:53	01/20/20 21:44	1
Manganese	**4.1**		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 21:44	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-4

Client Sample ID: 2900V-29-B01
Date Collected: 01/13/20 12:30
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-7
Matrix: Solid
Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.030**	**J**	0.050	0.010	mg/L		01/20/20 07:46	01/20/20 18:16	1
Barium	**0.34**	**J**	0.50	0.050	mg/L		01/20/20 07:46	01/20/20 18:16	1
Beryllium	**0.0047**		0.0040	0.0040	mg/L		01/20/20 07:46	01/20/20 18:16	1
Boron	**0.18**		0.10	0.050	mg/L		01/20/20 07:46	01/20/20 18:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/20 07:46	01/20/20 18:16	1
Calcium	**24**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:16	1
Chromium	**0.10**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:16	1
Cobalt	**0.014**	**J**	0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:16	1
Iron	**76**		0.40	0.20	mg/L		01/20/20 07:46	01/20/20 18:16	1
Lead	**0.057**		0.0075	0.0075	mg/L		01/20/20 07:46	01/20/20 18:16	1
Manganese	**0.29**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:16	1
Nickel	**0.078**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:16	1
Potassium	**30**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:16	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/20 07:46	01/20/20 18:16	1
Silver	<0.025		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:16	1
Zinc	**0.16**	**J**	0.50	0.020	mg/L		01/20/20 07:46	01/20/20 18:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/20/20 07:46	01/20/20 20:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:46	01/21/20 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/20 14:00	01/22/20 11:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**		0.017	0.0058	mg/Kg	☼	01/20/20 14:10	01/21/20 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.28	mg/Kg	☼	01/22/20 09:50	01/22/20 14:29	1
pH	**7.5**		0.2	0.2	SU			01/21/20 10:13	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-4

Client Sample ID: 2900V-29-B02
Date Collected: 01/13/20 11:50
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-8
Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Acetone	**0.013**	**J**	0.018	0.0078	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Chloroethane	<0.0045	*	0.0045	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	01/14/20 17:12	01/21/20 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*01/14/20 17:12*	*01/21/20 18:13*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*01/14/20 17:12*	*01/21/20 18:13*	*1*
Dibromofluoromethane	*93*		*75 - 126*	*01/14/20 17:12*	*01/21/20 18:13*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*01/14/20 17:12*	*01/21/20 18:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
2,2'-oxybis[1-chloropropane]	<0.19	*	0.19	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-4

Client Sample ID: 2900V-29-B02
Date Collected: 01/13/20 11:50
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-8
Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
2-Methylnaphthalene	<0.077		0.077	0.0071	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Bis(2-chloroethyl)ether	<0.19	*	0.19	0.057	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-4

Client Sample ID: 2900V-29-B02
Date Collected: 01/13/20 11:50
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-8
Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	01/22/20 15:00	01/23/20 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*82*		*31 - 143*	*01/22/20 15:00*	*01/23/20 15:23*	*1*
2-Fluorobiphenyl	*100*		*43 - 145*	*01/22/20 15:00*	*01/23/20 15:23*	*1*
2-Fluorophenol	*123*		*31 - 166*	*01/22/20 15:00*	*01/23/20 15:23*	*1*
Nitrobenzene-d5	*98*		*37 - 147*	*01/22/20 15:00*	*01/23/20 15:23*	*1*
Phenol-d5	*124*		*30 - 153*	*01/22/20 15:00*	*01/23/20 15:23*	*1*
Terphenyl-d14	*133*		*42 - 157*	*01/22/20 15:00*	*01/23/20 15:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.3**	**B**	1.1	0.22	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Arsenic	**7.6**		0.57	0.20	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Barium	**52**		0.57	0.065	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Beryllium	**0.78**		0.23	0.053	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Boron	**14**	**B**	2.9	0.27	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Cadmium	**0.093**	**J B**	0.11	0.021	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Calcium	**34000**	**B**	11	1.9	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Chromium	**19**		0.57	0.28	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Cobalt	**12**		0.29	0.075	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Copper	**17**		0.57	0.16	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Iron	**20000**	**B**	11	5.9	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Lead	**15**		0.29	0.13	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Magnesium	**16000**		5.7	2.8	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Manganese	**380**		0.57	0.083	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Nickel	**26**		0.57	0.17	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Potassium	**2900**		29	10	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Silver	**3.0**		0.29	0.074	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Sodium	**1100**		57	8.4	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Thallium	**1.8**		0.57	0.28	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Vanadium	**24**		0.29	0.067	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1
Zinc	**54**		1.1	0.50	mg/Kg	☼	01/16/20 16:26	01/18/20 04:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/20/20 07:53	01/20/20 20:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:53	01/20/20 20:06	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:06	1
Iron	<0.40		0.40	0.20	mg/L		01/20/20 07:53	01/20/20 20:06	1

Client Sample ID: 2900V-29-B02

Date Collected: 01/13/20 11:50
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-8

Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:53	01/20/20 20:06	1
Manganese	**1.4**		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:06	1
Nickel	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.069**		0.050	0.010	mg/L		01/20/20 07:46	01/21/20 19:49	1
Barium	**1.9**		0.50	0.050	mg/L		01/20/20 07:46	01/20/20 18:20	1
Beryllium	**0.022**		0.0040	0.0040	mg/L		01/20/20 07:46	01/20/20 18:20	1
Boron	**0.35**		0.10	0.050	mg/L		01/20/20 07:46	01/20/20 18:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/20 07:46	01/21/20 19:49	1
Calcium	**48**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:20	1
Chromium	**0.30**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:20	1
Cobalt	**0.050**		0.025	0.010	mg/L		01/20/20 07:46	01/21/20 19:49	1
Iron	**260**		0.40	0.20	mg/L		01/20/20 07:46	01/20/20 18:20	1
Lead	**0.097**		0.0075	0.0075	mg/L		01/20/20 07:46	01/21/20 19:49	1
Manganese	**1.4**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:20	1
Nickel	**0.21**		0.025	0.010	mg/L		01/20/20 07:46	01/21/20 19:49	1
Potassium	**200**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:20	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/20 07:46	01/20/20 18:20	1
Silver	**0.024**	**J**	0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:20	1
Zinc	**0.53**		0.50	0.020	mg/L		01/20/20 07:46	01/20/20 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:53	01/21/20 18:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/20/20 07:46	01/20/20 20:22	1
Thallium	**0.0030**		0.0020	0.0020	mg/L		01/20/20 07:46	01/21/20 11:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00033**		0.00020	0.00020	mg/L		01/21/20 14:00	01/22/20 11:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0069**	**J**	0.019	0.0064	mg/Kg	☼	01/20/20 14:10	01/21/20 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.47		0.47	0.24	mg/Kg	☼	01/22/20 09:50	01/22/20 14:29	1
pH	**7.7**		0.2	0.2	SU			01/21/20 10:16	1

Client Sample ID: 2900V-29-B02 Dup **Lab Sample ID: 500-176260-9**
Date Collected: 01/13/20 11:55 **Matrix: Solid**
Date Received: 01/13/20 16:33 **Percent Solids: 82.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00079	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
1,1-Dichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Acetone	<0.019		0.019	0.0081	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Bromomethane	<0.0046		0.0046	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Chlorobenzene	<0.0019		0.0019	0.00068	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Chloroethane	<0.0046	*	0.0046	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	01/14/20 17:12	01/21/20 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*	*01/14/20 17:12*	*01/21/20 18:38*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 131*	*01/14/20 17:12*	*01/21/20 18:38*	*1*
Dibromofluoromethane	*88*		*75 - 126*	*01/14/20 17:12*	*01/21/20 18:38*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*01/14/20 17:12*	*01/21/20 18:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
2,2'-oxybis[1-chloropropane]	<0.20	*	0.20	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1

Client Sample ID: 2900V-29-B02 Dup
Date Collected: 01/13/20 11:55
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-9
Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Bis(2-chloroethyl)ether	<0.20	*	0.20	0.060	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-4

Client Sample ID: 2900V-29-B02 Dup

Date Collected: 01/13/20 11:55
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-9

Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	01/22/20 15:00	01/23/20 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*74*		*31 - 143*	*01/22/20 15:00*	*01/23/20 15:47*	*1*
2-Fluorobiphenyl	*96*		*43 - 145*	*01/22/20 15:00*	*01/23/20 15:47*	*1*
2-Fluorophenol	*111*		*31 - 166*	*01/22/20 15:00*	*01/23/20 15:47*	*1*
Nitrobenzene-d5	*97*		*37 - 147*	*01/22/20 15:00*	*01/23/20 15:47*	*1*
Phenol-d5	*110*		*30 - 153*	*01/22/20 15:00*	*01/23/20 15:47*	*1*
Terphenyl-d14	*124*		*42 - 157*	*01/22/20 15:00*	*01/23/20 15:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.99**	**J B**	1.2	0.23	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Arsenic	**7.7**		0.58	0.20	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Barium	**70**		0.58	0.066	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Beryllium	**0.83**		0.23	0.054	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Boron	**13**	**B**	2.9	0.27	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Cadmium	**0.082**	**J B**	0.12	0.021	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Calcium	**32000**	**B**	12	2.0	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Chromium	**20**		0.58	0.29	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Cobalt	**12**		0.29	0.076	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Copper	**19**		0.58	0.16	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Iron	**21000**	**B**	12	6.1	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Lead	**15**		0.29	0.13	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Magnesium	**15000**		5.8	2.9	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Manganese	**320**		0.58	0.085	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Nickel	**29**		0.58	0.17	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Potassium	**3100**		29	10	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Silver	**3.2**		0.29	0.075	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Sodium	**1300**		58	8.6	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Thallium	**1.5**		0.58	0.29	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Vanadium	**25**		0.29	0.069	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1
Zinc	**63**		1.2	0.51	mg/Kg	☼	01/16/20 16:26	01/18/20 05:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/20/20 07:53	01/20/20 20:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:53	01/20/20 20:19	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:19	1
Iron	<0.40		0.40	0.20	mg/L		01/20/20 07:53	01/20/20 20:19	1

Client Sample ID: 2900V-29-B02 Dup

Date Collected: 01/13/20 11:55
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-9

Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:53	01/20/20 20:19	1
Manganese	**1.4**		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:19	1
Nickel	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:19	1

Method: 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		01/20/20 07:46	01/21/20 19:53	1
Barium	**0.86**		0.50	0.050	mg/L		01/20/20 07:46	01/20/20 18:24	1
Beryllium	**0.012**		0.0040	0.0040	mg/L		01/20/20 07:46	01/20/20 18:24	1
Boron	**0.30**		0.10	0.050	mg/L		01/20/20 07:46	01/20/20 18:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/20 07:46	01/21/20 19:53	1
Calcium	**63**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:24	1
Chromium	**0.23**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:24	1
Cobalt	**0.048**		0.025	0.010	mg/L		01/20/20 07:46	01/21/20 19:53	1
Iron	**200**		0.40	0.20	mg/L		01/20/20 07:46	01/20/20 18:24	1
Lead	**0.082**		0.0075	0.0075	mg/L		01/20/20 07:46	01/21/20 19:53	1
Manganese	**1.2**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:24	1
Nickel	**0.20**		0.025	0.010	mg/L		01/20/20 07:46	01/21/20 19:53	1
Potassium	**71**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:24	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/20 07:46	01/20/20 18:24	1
Silver	**0.016**	**J**	0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:24	1
Zinc	**0.51**		0.50	0.020	mg/L		01/20/20 07:46	01/20/20 18:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:53	01/21/20 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/20/20 07:46	01/20/20 20:24	1
Thallium	**0.0028**		0.0020	0.0020	mg/L		01/20/20 07:46	01/21/20 11:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00028**		0.00020	0.00020	mg/L		01/21/20 14:00	01/22/20 11:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.019	0.0064	mg/Kg	☼	01/20/20 14:10	01/21/20 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.24	mg/Kg	☼	01/22/20 09:50	01/22/20 14:29	1
pH	**7.9**		0.2	0.2	SU			01/21/20 10:18	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-4

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: AC7-32A Project No.: PTB/WO: 184-006/32A TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other Sampler: Chad Nelson

COC No.: 1 of 1

Lab Job No.: 500-176260

Sample Temp: 2.7, 3.1

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.

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
7	2900V-29-B01	1/13	1230	S	X	X					X	X	X	X	X					
8	2900V-29-B02	1/13	1150	↓	↓	↓					↓	↓	↓	↓	↓					
9	2900V-29-B02 Dup	1/13	1155	↓	↓	↓					↓	↓	↓	↓	✓					

Relinquished by: [signature]	Date/Time 1/13 1633	Received by: Stephanie Hunnandry 1A	Date/Time 1-13-20 1633
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
20130-20143 Providence Lane and 20133-20203 Joy Lane

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52876 (Decimal Degrees) Longitude: -87.57147 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 2,213

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52876 Longitude: - 87.57147

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 2900V-30-B01, -B02, -B03, -B05 AND -B06 WERE SAMPLED ADJACENT TO SITE 2900V-30. SEE TABLE 3I AND FIGURES 3 AND 4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBERS: 500-176260-5 AND 500-176393-2.

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 20, 2020
Date:

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

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-30
Residences

Sample ID	2900V-30-B01-1	2900V-30-B01-2	2900V-30-B02-1	2900V-30-B02-2	2900V-30-B03-1	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-4	4-8	0-4	4-8	0-4					
Sample Date	1/13/2020	1/13/2020	1/13/2020	1/13/2020	1/13/2020					
PID	0	0	0	0	0					
Sample pH	7.7	8.1	7.7	7.8	8.3	[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
Matrix	Soil	Soil	Soil	Soil	Soil					
Inorganic Compounds, Total (mg/kg)										
Arsenic	**9**	**6.6**	**7.2**	**7.1**	**12** **1,3**	11.3	--	11.3	--	13

Sample ID	2900V-30-B03-2	2900V-30-B05-1	2900V-30-B05-2	2900V-30-B05-2 DUP	2900V-30-B06-1	**Maximum Allowable Concentration**				
Sample Depth (ft)	4-8	0-4	4-8	4-8	0-4					
Sample Date	1/13/2020	1/15/2020	1/15/2020	1/15/2020	1/15/2020					
PID	0	0	0	0	0					
Sample pH	8.3	8.5	7.7	8	8.6	[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
Matrix	Soil	Soil	Soil	Soil	Soil					
Inorganic Compounds, Total (mg/kg)										
Arsenic	**6.4**	**2.2**	**4.3**	**4**	**7.1**	11.3	--	11.3	--	13

Sample ID	2900V-30-B06-2	**Maximum Allowable Concentration**				
Sample Depth (ft)	4-8					
Sample Date	1/15/2020					
PID	0					
Sample pH	8.6	[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
Matrix	Soil					
Inorganic Compounds, Total (mg/kg)						
Arsenic	**8.1**	11.3	--	11.3	--	13

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176260-5
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/28/2020 5:09:54 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-5

Client Sample ID: 2900V-30-B01-1
Date Collected: 01/13/20 13:30
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-10
Matrix: Solid
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Acetone	**0.0088**	**J**	0.018	0.0080	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Chloroethane	<0.0046	*	0.0046	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	01/14/20 17:12	01/21/20 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*01/14/20 17:12*	*01/21/20 19:03*	*1*
4-Bromofluorobenzene (Surr)	*104*		*75 - 131*	*01/14/20 17:12*	*01/21/20 19:03*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*01/14/20 17:12*	*01/21/20 19:03*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*01/14/20 17:12*	*01/21/20 19:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
2,2'-oxybis[1-chloropropane]	<0.21	*	0.21	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1

Client Sample ID: 2900V-30-B01-1
Date Collected: 01/13/20 13:30
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-10
Matrix: Solid
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
2-Methylnaphthalene	<0.085		0.085	0.0077	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Benzo[a]pyrene	<0.042		0.042	0.0081	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Bis(2-chloroethyl)ether	<0.21	*	0.21	0.063	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Chrysene	<0.042		0.042	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Fluoranthene	<0.042		0.042	0.0078	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Hexachlorobenzene	<0.085		0.085	0.0097	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-5

Client Sample ID: 2900V-30-B01-1
Date Collected: 01/13/20 13:30
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-10
Matrix: Solid
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.051	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Pentachlorophenol	<0.85		0.85	0.67	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1
Pyrene	<0.042		0.042	0.0083	mg/Kg	☼	01/22/20 15:00	01/23/20 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*31 - 143*	*01/22/20 15:00*	*01/23/20 16:12*	*1*
2-Fluorobiphenyl	*95*		*43 - 145*	*01/22/20 15:00*	*01/23/20 16:12*	*1*
2-Fluorophenol	*111*		*31 - 166*	*01/22/20 15:00*	*01/23/20 16:12*	*1*
Nitrobenzene-d5	*95*		*37 - 147*	*01/22/20 15:00*	*01/23/20 16:12*	*1*
Phenol-d5	*113*		*30 - 153*	*01/22/20 15:00*	*01/23/20 16:12*	*1*
Terphenyl-d14	*131*		*42 - 157*	*01/22/20 15:00*	*01/23/20 16:12*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.0**	**J B**	1.2	0.23	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Arsenic	**9.0**		0.58	0.20	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Barium	**120**		0.58	0.067	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Beryllium	**0.91**		0.23	0.054	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Boron	**14**	**B**	2.9	0.27	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Cadmium	**0.20**	**B**	0.12	0.021	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Calcium	**6800**	**B**	12	2.0	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Chromium	**25**		0.58	0.29	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Cobalt	**15**		0.29	0.076	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Copper	**29**		0.58	0.16	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Iron	**23000**	**B**	12	6.1	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Lead	**48**		0.29	0.13	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Magnesium	**7800**		5.8	2.9	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Manganese	**530**		0.58	0.085	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Nickel	**41**		0.58	0.17	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Potassium	**3500**		29	10	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Silver	**4.0**		0.29	0.075	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Sodium	**1500**		58	8.6	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Thallium	**2.0**		0.58	0.29	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Vanadium	**28**		0.29	0.069	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1
Zinc	**140**		1.2	0.51	mg/Kg	☼	01/16/20 16:26	01/18/20 05:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/20/20 07:53	01/20/20 20:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:53	01/20/20 20:23	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:23	1
Iron	<0.40		0.40	0.20	mg/L		01/20/20 07:53	01/20/20 20:23	1

Client Sample ID: 2900V-30-B01-1 **Lab Sample ID: 500-176260-10**
Date Collected: 01/13/20 13:30 **Matrix: Solid**
Date Received: 01/13/20 16:33 **Percent Solids: 78.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:53	01/20/20 20:23	1
Manganese	**0.98**		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:23	1
Nickel	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:23	1

Method: 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		01/20/20 07:46	01/20/20 18:28	1
Barium	**1.9**		0.50	0.050	mg/L		01/20/20 07:46	01/20/20 18:28	1
Beryllium	**0.020**		0.0040	0.0040	mg/L		01/20/20 07:46	01/20/20 18:28	1
Boron	**0.28**		0.10	0.050	mg/L		01/20/20 07:46	01/20/20 18:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/20 07:46	01/20/20 18:28	1
Calcium	**20**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:28	1
Chromium	**0.31**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:28	1
Cobalt	**0.058**		0.050	0.020	mg/L		01/20/20 07:46	01/22/20 11:07	2
Iron	**270**		0.40	0.20	mg/L		01/20/20 07:46	01/20/20 18:28	1
Lead	**0.16**		0.0075	0.0075	mg/L		01/20/20 07:46	01/20/20 18:28	1
Manganese	**1.1**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:28	1
Nickel	**0.38**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:28	1
Potassium	**170**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:28	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/20 07:46	01/20/20 18:28	1
Silver	**0.027**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:28	1
Zinc	**0.76**		0.50	0.020	mg/L		01/20/20 07:46	01/20/20 18:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:53	01/21/20 18:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/20/20 07:46	01/20/20 20:32	1
Thallium	**0.0031**		0.0020	0.0020	mg/L		01/20/20 07:46	01/21/20 11:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00042**		0.00033	0.00033	mg/L		01/21/20 14:00	01/22/20 11:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**	**F2**	0.019	0.0064	mg/Kg	☼	01/20/20 14:10	01/21/20 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.27	mg/Kg	☼	01/22/20 09:50	01/22/20 14:30	1
pH	**7.7**		0.2	0.2	SU			01/21/20 10:20	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-5

Client Sample ID: 2900V-30-B01-2
Date Collected: 01/13/20 13:35
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-11
Matrix: Solid
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
1,1-Dichloroethane	<0.0019		0.0019	0.00067	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Acetone	**0.056**		0.019	0.0085	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Benzene	<0.0019		0.0019	0.00050	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Bromodichloromethane	<0.0019		0.0019	0.00040	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Chlorobenzene	<0.0019		0.0019	0.00072	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Chloroethane	<0.0049	*	0.0049	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00059	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Dibromochloromethane	<0.0019		0.0019	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Styrene	<0.0019		0.0019	0.00059	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Trichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*01/14/20 17:12*	*01/21/20 19:28*	*1*
4-Bromofluorobenzene (Surr)	*104*		*75 - 131*	*01/14/20 17:12*	*01/21/20 19:28*	*1*
Dibromofluoromethane	*94*		*75 - 126*	*01/14/20 17:12*	*01/21/20 19:28*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*01/14/20 17:12*	*01/21/20 19:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
2,2'-oxybis[1-chloropropane]	<0.19	*	0.19	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1

Client Sample ID: 2900V-30-B01-2
Date Collected: 01/13/20 13:35
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-11
Matrix: Solid
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Bis(2-chloroethyl)ether	<0.19	*	0.19	0.057	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-5

Client Sample ID: 2900V-30-B01-2
Date Collected: 01/13/20 13:35
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-11
Matrix: Solid
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	01/22/20 15:00	01/23/20 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*31 - 143*	*01/22/20 15:00*	*01/23/20 16:36*	*1*
2-Fluorobiphenyl	*102*		*43 - 145*	*01/22/20 15:00*	*01/23/20 16:36*	*1*
2-Fluorophenol	*116*		*31 - 166*	*01/22/20 15:00*	*01/23/20 16:36*	*1*
Nitrobenzene-d5	*101*		*37 - 147*	*01/22/20 15:00*	*01/23/20 16:36*	*1*
Phenol-d5	*118*		*30 - 153*	*01/22/20 15:00*	*01/23/20 16:36*	*1*
Terphenyl-d14	*133*		*42 - 157*	*01/22/20 15:00*	*01/23/20 16:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.0**	**J B**	1.1	0.22	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Arsenic	**6.6**		0.56	0.19	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Barium	**69**		0.56	0.064	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Beryllium	**0.78**		0.22	0.052	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Boron	**17**	**B**	2.8	0.26	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Cadmium	**0.056**	**J B**	0.11	0.020	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Calcium	**66000**	**B**	110	19	mg/Kg	☼	01/16/20 16:26	01/20/20 10:49	10
Chromium	**19**		0.56	0.28	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Cobalt	**15**		0.28	0.073	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Copper	**17**		0.56	0.16	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Iron	**19000**	**B**	11	5.8	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Lead	**6.4**		0.28	0.13	mg/Kg	☼	01/16/20 16:26	01/20/20 10:45	1
Magnesium	**24000**		5.6	2.8	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Manganese	**400**		0.56	0.081	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Nickel	**30**		0.56	0.16	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Potassium	**3500**		28	9.9	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Silver	**2.9**		0.28	0.072	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Sodium	**730**		56	8.3	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Thallium	**1.6**		0.56	0.28	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Vanadium	**22**		0.28	0.066	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1
Zinc	**54**		1.1	0.49	mg/Kg	☼	01/16/20 16:26	01/18/20 05:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/20/20 07:53	01/20/20 21:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:53	01/20/20 21:48	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 21:48	1
Iron	<0.40		0.40	0.20	mg/L		01/20/20 07:53	01/20/20 21:48	1

Client Sample ID: 2900V-30-B01-2 **Lab Sample ID: 500-176260-11**
Date Collected: 01/13/20 13:35 **Matrix: Solid**
Date Received: 01/13/20 16:33 **Percent Solids: 86.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:53	01/20/20 21:48	1
Manganese	**4.3**		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 21:48	1
Nickel	**0.044**		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 21:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.066**		0.050	0.010	mg/L		01/20/20 07:46	01/20/20 18:32	1
Barium	**0.87**		0.50	0.050	mg/L		01/20/20 07:46	01/20/20 18:32	1
Beryllium	**0.011**		0.0040	0.0040	mg/L		01/20/20 07:46	01/20/20 18:32	1
Boron	**0.27**		0.10	0.050	mg/L		01/20/20 07:46	01/20/20 18:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/20 07:46	01/20/20 18:32	1
Calcium	**91**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:32	1
Chromium	**0.21**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:32	1
Cobalt	**0.038**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:32	1
Iron	**190**		0.40	0.20	mg/L		01/20/20 07:46	01/20/20 18:32	1
Lead	**0.11**		0.0075	0.0075	mg/L		01/20/20 07:46	01/20/20 18:32	1
Manganese	**1.0**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:32	1
Nickel	**0.18**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:32	1
Potassium	**80**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:32	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/20 07:46	01/20/20 18:32	1
Silver	**0.016**	**J**	0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:32	1
Zinc	**0.53**		0.50	0.020	mg/L		01/20/20 07:46	01/20/20 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/20/20 07:46	01/20/20 20:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:46	01/21/20 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00021**	**F1**	0.00020	0.00020	mg/L		01/21/20 14:00	01/22/20 11:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**J**	0.019	0.0064	mg/Kg	☼	01/20/20 14:10	01/21/20 10:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.42		0.42	0.21	mg/Kg	☼	01/22/20 09:50	01/22/20 14:30	1
pH	**8.1**		0.2	0.2	SU			01/21/20 10:23	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-5

Client Sample ID: 2900V-30-B02-1
Date Collected: 01/13/20 13:45
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-12
Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Acetone	**0.020**		0.017	0.0074	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Chloroethane	<0.0043	*	0.0043	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*01/14/20 17:12*	*01/21/20 19:54*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 131*	*01/14/20 17:12*	*01/21/20 19:54*	*1*
Dibromofluoromethane	*88*		*75 - 126*	*01/14/20 17:12*	*01/21/20 19:54*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*01/14/20 17:12*	*01/21/20 19:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
2,2'-oxybis[1-chloropropane]	<0.20	*	0.20	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-5

Client Sample ID: 2900V-30-B02-1
Date Collected: 01/13/20 13:45
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-12
Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Bis(2-chloroethyl)ether	<0.20	*	0.20	0.061	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-5

Client Sample ID: 2900V-30-B02-1
Date Collected: 01/13/20 13:45
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-12
Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	01/22/20 15:00	01/23/20 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*69*		*31 - 143*	*01/22/20 15:00*	*01/23/20 17:00*	*1*
2-Fluorobiphenyl	*88*		*43 - 145*	*01/22/20 15:00*	*01/23/20 17:00*	*1*
2-Fluorophenol	*102*		*31 - 166*	*01/22/20 15:00*	*01/23/20 17:00*	*1*
Nitrobenzene-d5	*85*		*37 - 147*	*01/22/20 15:00*	*01/23/20 17:00*	*1*
Phenol-d5	*104*		*30 - 153*	*01/22/20 15:00*	*01/23/20 17:00*	*1*
Terphenyl-d14	*121*		*42 - 157*	*01/22/20 15:00*	*01/23/20 17:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.84**	**J B**	1.2	0.24	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Arsenic	**7.2**		0.61	0.21	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Barium	**73**		0.61	0.069	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Beryllium	**0.90**		0.24	0.057	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Boron	**16**	**B**	3.0	0.28	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Cadmium	**0.054**	**J B**	0.12	0.022	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Calcium	**23000**	**B**	12	2.1	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Chromium	**22**		0.61	0.30	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Cobalt	**12**		0.30	0.080	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Copper	**19**		0.61	0.17	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Iron	**22000**	**B**	12	6.3	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Lead	**13**		0.30	0.14	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Magnesium	**18000**		6.1	3.0	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Manganese	**380**		0.61	0.088	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Nickel	**35**		0.61	0.18	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Potassium	**3500**		30	11	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Silver	**3.4**		0.30	0.078	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Sodium	**1300**		61	9.0	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Thallium	**2.3**		0.61	0.30	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Vanadium	**26**		0.30	0.072	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1
Zinc	**59**		1.2	0.53	mg/Kg	☼	01/16/20 16:26	01/18/20 05:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/20/20 07:53	01/20/20 20:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:53	01/20/20 20:28	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:28	1
Iron	<0.40		0.40	0.20	mg/L		01/20/20 07:53	01/20/20 20:28	1

Client Sample ID: 2900V-30-B02-1
Date Collected: 01/13/20 13:45
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-12
Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:53	01/20/20 20:28	1
Manganese	**0.27**		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:28	1
Nickel	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:28	1

Method: 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		01/20/20 07:46	01/20/20 18:36	1
Barium	**1.1**		0.50	0.050	mg/L		01/20/20 07:46	01/20/20 18:36	1
Beryllium	**0.013**		0.0040	0.0040	mg/L		01/20/20 07:46	01/20/20 18:36	1
Boron	**0.30**		0.10	0.050	mg/L		01/20/20 07:46	01/20/20 18:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/20 07:46	01/20/20 18:36	1
Calcium	**32**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:36	1
Chromium	**0.25**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:36	1
Cobalt	**0.051**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:36	1
Iron	**230**		0.40	0.20	mg/L		01/20/20 07:46	01/20/20 18:36	1
Lead	**0.12**		0.0075	0.0075	mg/L		01/20/20 07:46	01/20/20 18:36	1
Manganese	**0.85**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:36	1
Nickel	**0.24**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:36	1
Potassium	**78**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:36	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/20 07:46	01/20/20 18:36	1
Silver	**0.020**	**J**	0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:36	1
Zinc	**0.52**		0.50	0.020	mg/L		01/20/20 07:46	01/20/20 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:53	01/21/20 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/20/20 07:46	01/20/20 20:36	1
Thallium	**0.0030**		0.0020	0.0020	mg/L		01/20/20 07:46	01/21/20 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00029**		0.00020	0.00020	mg/L		01/21/20 14:00	01/22/20 11:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.014**	**J**	0.020	0.0066	mg/Kg	☼	01/20/20 14:10	01/21/20 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.25	mg/Kg	☼	01/22/20 09:50	01/22/20 14:31	1
pH	**7.7**		0.2	0.2	SU			01/21/20 10:25	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-5

Client Sample ID: 2900V-30-B02-2
Date Collected: 01/13/20 13:50
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-13
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Chloroethane	<0.0046	*	0.0046	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	01/14/20 17:12	01/21/20 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*	*01/14/20 17:12*	*01/21/20 20:19*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*01/14/20 17:12*	*01/21/20 20:19*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*01/14/20 17:12*	*01/21/20 20:19*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*01/14/20 17:12*	*01/21/20 20:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
2,2'-oxybis[1-chloropropane]	<0.20	*	0.20	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1

Client Sample ID: 2900V-30-B02-2
Date Collected: 01/13/20 13:50
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-13
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Benzo[a]anthracene	**0.018**	**J**	0.040	0.0054	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Benzo[a]pyrene	**0.022**	**J**	0.040	0.0078	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Benzo[b]fluoranthene	**0.040**		0.040	0.0087	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Benzo[g,h,i]perylene	**0.014**	**J**	0.040	0.013	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Bis(2-chloroethyl)ether	<0.20	*	0.20	0.060	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Chrysene	**0.026**	**J**	0.040	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Fluoranthene	**0.040**		0.040	0.0075	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-5

Client Sample ID: 2900V-30-B02-2
Date Collected: 01/13/20 13:50
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-13
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.013	J	0.040	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Phenanthrene	0.016	J	0.040	0.0056	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1
Pyrene	0.035	J	0.040	0.0080	mg/Kg	☼	01/22/20 15:00	01/23/20 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*48*		*31 - 143*	*01/22/20 15:00*	*01/23/20 20:14*	*1*
2-Fluorobiphenyl	*97*		*43 - 145*	*01/22/20 15:00*	*01/23/20 20:14*	*1*
2-Fluorophenol	*112*		*31 - 166*	*01/22/20 15:00*	*01/23/20 20:14*	*1*
Nitrobenzene-d5	*98*		*37 - 147*	*01/22/20 15:00*	*01/23/20 20:14*	*1*
Phenol-d5	*116*		*30 - 153*	*01/22/20 15:00*	*01/23/20 20:14*	*1*
Terphenyl-d14	*130*		*42 - 157*	*01/22/20 15:00*	*01/23/20 20:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	B	1.1	0.22	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Arsenic	7.1		0.57	0.20	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Barium	52		0.57	0.065	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Beryllium	0.80		0.23	0.053	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Boron	16	B	2.9	0.27	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Cadmium	0.071	J B	0.11	0.021	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Calcium	64000	B	110	19	mg/Kg	☼	01/16/20 16:26	01/20/20 10:57	10
Chromium	19		0.57	0.28	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Cobalt	11		0.29	0.075	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Copper	18		0.57	0.16	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Iron	20000	B	11	5.9	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Lead	7.8		0.29	0.13	mg/Kg	☼	01/16/20 16:26	01/20/20 10:53	1
Magnesium	25000		5.7	2.8	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Manganese	360		0.57	0.083	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Nickel	28		0.57	0.17	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Potassium	3400		29	10	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Silver	3.0		0.29	0.074	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Sodium	810		57	8.5	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Thallium	1.5		0.57	0.29	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Vanadium	23		0.29	0.067	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1
Zinc	51		1.1	0.50	mg/Kg	☼	01/16/20 16:26	01/18/20 05:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/20/20 07:53	01/20/20 20:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:53	01/20/20 20:32	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:32	1
Iron	<0.40		0.40	0.20	mg/L		01/20/20 07:53	01/20/20 20:32	1

Client Sample ID: 2900V-30-B02-2 **Lab Sample ID: 500-176260-13**
Date Collected: 01/13/20 13:50 **Matrix: Solid**
Date Received: 01/13/20 16:33 **Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:53	01/20/20 20:32	1
Manganese	**0.69**		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:32	1
Nickel	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.057**		0.050	0.010	mg/L		01/20/20 07:46	01/20/20 18:40	1
Barium	**0.58**		0.50	0.050	mg/L		01/20/20 07:46	01/20/20 18:40	1
Beryllium	**0.0089**		0.0040	0.0040	mg/L		01/20/20 07:46	01/20/20 18:40	1
Boron	**0.25**		0.10	0.050	mg/L		01/20/20 07:46	01/20/20 18:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/20 07:46	01/20/20 18:40	1
Calcium	**53**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:40	1
Chromium	**0.21**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:40	1
Cobalt	**0.040**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:40	1
Iron	**160**		0.40	0.20	mg/L		01/20/20 07:46	01/20/20 18:40	1
Lead	**0.093**		0.0075	0.0075	mg/L		01/20/20 07:46	01/20/20 18:40	1
Manganese	**0.68**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:40	1
Nickel	**0.17**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:40	1
Potassium	**46**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:40	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/20 07:46	01/20/20 18:40	1
Silver	**0.014**	**J**	0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:40	1
Zinc	**0.39**	**J**	0.50	0.020	mg/L		01/20/20 07:46	01/20/20 18:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:53	01/21/20 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/20/20 07:46	01/20/20 20:38	1
Thallium	**0.0023**		0.0020	0.0020	mg/L		01/20/20 07:46	01/21/20 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/20 14:00	01/22/20 11:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.010**	**J**	0.018	0.0059	mg/Kg	☼	01/20/20 14:10	01/21/20 10:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.25	mg/Kg	☼	01/22/20 09:50	01/22/20 14:31	1
pH	**7.8**		0.2	0.2	SU			01/21/20 10:28	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-5

Client Sample ID: 2900V-30-B03-1
Date Collected: 01/13/20 13:55
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-14
Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Acetone	**0.019**		0.017	0.0076	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Chloroethane	<0.0043	*	0.0043	0.0013	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	01/14/20 17:12	01/21/20 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*01/14/20 17:12*	*01/21/20 20:44*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*01/14/20 17:12*	*01/21/20 20:44*	*1*
Dibromofluoromethane	*92*		*75 - 126*	*01/14/20 17:12*	*01/21/20 20:44*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*01/14/20 17:12*	*01/21/20 20:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
2,2'-oxybis[1-chloropropane]	<0.20	*	0.20	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1

Client Sample ID: 2900V-30-B03-1
Date Collected: 01/13/20 13:55
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-14
Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Bis(2-chloroethyl)ether	<0.20	*	0.20	0.061	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-5

Client Sample ID: 2900V-30-B03-1
Date Collected: 01/13/20 13:55
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-14
Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	01/22/20 15:00	01/23/20 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*31 - 143*	*01/22/20 15:00*	*01/23/20 17:24*	*1*
2-Fluorobiphenyl	*95*		*43 - 145*	*01/22/20 15:00*	*01/23/20 17:24*	*1*
2-Fluorophenol	*111*		*31 - 166*	*01/22/20 15:00*	*01/23/20 17:24*	*1*
Nitrobenzene-d5	*94*		*37 - 147*	*01/22/20 15:00*	*01/23/20 17:24*	*1*
Phenol-d5	*110*		*30 - 153*	*01/22/20 15:00*	*01/23/20 17:24*	*1*
Terphenyl-d14	*124*		*42 - 157*	*01/22/20 15:00*	*01/23/20 17:24*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.95**	**J B**	1.2	0.22	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Arsenic	**12**		0.58	0.20	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Barium	**110**		0.58	0.066	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Beryllium	**0.89**		0.23	0.054	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Boron	**12**	**B**	2.9	0.27	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Cadmium	**0.12**	**B**	0.12	0.021	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Calcium	**8500**	**B**	12	2.0	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Chromium	**21**		0.58	0.29	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Cobalt	**15**		0.29	0.076	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Copper	**63**		0.58	0.16	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Iron	**25000**	**B**	12	6.0	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Lead	**34**		0.29	0.13	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Magnesium	**7200**		5.8	2.9	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Manganese	**380**		0.58	0.084	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Nickel	**36**		0.58	0.17	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Potassium	**3100**		29	10	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Silver	**3.4**		0.29	0.075	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Sodium	**1600**		58	8.6	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Thallium	**2.5**		0.58	0.29	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Vanadium	**30**		0.29	0.068	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1
Zinc	**120**		1.2	0.51	mg/Kg	☼	01/16/20 16:26	01/18/20 05:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/20/20 07:53	01/20/20 20:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:53	01/20/20 20:37	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:37	1
Iron	<0.40		0.40	0.20	mg/L		01/20/20 07:53	01/20/20 20:37	1

Client Sample ID: 2900V-30-B03-1 **Lab Sample ID: 500-176260-14**
Date Collected: 01/13/20 13:55 **Matrix: Solid**
Date Received: 01/13/20 16:33 **Percent Solids: 78.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:53	01/20/20 20:37	1
Manganese	**7.9**		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:37	1
Nickel	**0.019**	**J**	0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:37	1

Method: 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		01/20/20 07:46	01/20/20 18:44	1
Barium	**0.85**		0.50	0.050	mg/L		01/20/20 07:46	01/20/20 18:44	1
Beryllium	**0.0096**		0.0040	0.0040	mg/L		01/20/20 07:46	01/20/20 18:44	1
Boron	**0.20**		0.10	0.050	mg/L		01/20/20 07:46	01/20/20 18:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/20 07:46	01/20/20 18:44	1
Calcium	**29**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:44	1
Chromium	**0.18**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:44	1
Cobalt	**0.062**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:44	1
Iron	**170**		0.40	0.20	mg/L		01/20/20 07:46	01/20/20 18:44	1
Lead	**0.12**		0.0075	0.0075	mg/L		01/20/20 07:46	01/20/20 18:44	1
Manganese	**1.8**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:44	1
Nickel	**0.22**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:44	1
Potassium	**50**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:44	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/20 07:46	01/20/20 18:44	1
Silver	**0.016**	**J**	0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:44	1
Zinc	**0.45**	**J**	0.50	0.020	mg/L		01/20/20 07:46	01/20/20 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:53	01/21/20 19:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/20/20 07:46	01/20/20 20:40	1
Thallium	**0.0035**		0.0020	0.0020	mg/L		01/20/20 07:46	01/21/20 12:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00037**		0.00020	0.00020	mg/L		01/21/20 14:00	01/22/20 11:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**	**J**	0.020	0.0066	mg/Kg	☼	01/20/20 14:10	01/21/20 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.29	mg/Kg	☼	01/22/20 09:50	01/22/20 14:31	1
pH	**8.3**		0.2	0.2	SU			01/21/20 10:33	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-5

Client Sample ID: 2900V-30-B03-2
Date Collected: 01/13/20 14:00
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-15
Matrix: Solid
Percent Solids: 85.2

Method: 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	0.00052	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
1,1-Dichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Acetone	**0.023**		0.016	0.0068	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Bromoform	<0.0016		0.0016	0.00045	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Chlorobenzene	<0.0016		0.0016	0.00057	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Toluene	<0.0016		0.0016	0.00039	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	01/14/20 17:12	01/21/20 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*01/14/20 17:12*	*01/21/20 17:36*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 131*	*01/14/20 17:12*	*01/21/20 17:36*	*1*
Dibromofluoromethane	*98*		*75 - 126*	*01/14/20 17:12*	*01/21/20 17:36*	*1*
Toluene-d8 (Surr)	*93*		*75 - 124*	*01/14/20 17:12*	*01/21/20 17:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
2,2'-oxybis[1-chloropropane]	<0.19	*	0.19	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1

Client Sample ID: 2900V-30-B03-2
Date Collected: 01/13/20 14:00
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-15
Matrix: Solid
Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Bis(2-chloroethyl)ether	<0.19	*	0.19	0.058	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-5

Client Sample ID: 2900V-30-B03-2
Date Collected: 01/13/20 14:00
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-15
Matrix: Solid
Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	01/22/20 15:00	01/23/20 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*67*		*31 - 143*	*01/22/20 15:00*	*01/23/20 17:48*	*1*
2-Fluorobiphenyl	*96*		*43 - 145*	*01/22/20 15:00*	*01/23/20 17:48*	*1*
2-Fluorophenol	*110*		*31 - 166*	*01/22/20 15:00*	*01/23/20 17:48*	*1*
Nitrobenzene-d5	*94*		*37 - 147*	*01/22/20 15:00*	*01/23/20 17:48*	*1*
Phenol-d5	*113*		*30 - 153*	*01/22/20 15:00*	*01/23/20 17:48*	*1*
Terphenyl-d14	*127*		*42 - 157*	*01/22/20 15:00*	*01/23/20 17:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.1**	**J B**	1.2	0.23	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Arsenic	**6.4**		0.58	0.20	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Barium	**41**		0.58	0.066	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Beryllium	**0.76**		0.23	0.054	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Boron	**16**	**B**	2.9	0.27	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Cadmium	**0.070**	**J B**	0.12	0.021	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Calcium	**63000**	**B**	120	20	mg/Kg	☼	01/16/20 16:26	01/20/20 11:06	10
Chromium	**18**		0.58	0.29	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Cobalt	**12**		0.29	0.076	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Copper	**18**		0.58	0.16	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Iron	**19000**	**B**	12	6.0	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Lead	**6.3**		0.29	0.13	mg/Kg	☼	01/16/20 16:26	01/20/20 11:02	1
Magnesium	**25000**		5.8	2.9	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Manganese	**350**		0.58	0.084	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Nickel	**29**		0.58	0.17	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Potassium	**3500**		29	10	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Silver	**2.8**		0.29	0.075	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Sodium	**720**		58	8.6	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Thallium	**1.6**		0.58	0.29	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Vanadium	**22**		0.29	0.068	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1
Zinc	**53**		1.2	0.51	mg/Kg	☼	01/16/20 16:26	01/18/20 05:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/20/20 07:53	01/20/20 20:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:53	01/20/20 20:41	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:41	1
Iron	<0.40		0.40	0.20	mg/L		01/20/20 07:53	01/20/20 20:41	1

Client Sample ID: 2900V-30-B03-2 **Lab Sample ID: 500-176260-15**
Date Collected: 01/13/20 14:00 **Matrix: Solid**
Date Received: 01/13/20 16:33 **Percent Solids: 85.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:53	01/20/20 20:41	1
Manganese	**1.0**		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:41	1
Nickel	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.085**		0.050	0.010	mg/L		01/20/20 07:46	01/22/20 11:10	1
Barium	**0.87**		0.50	0.050	mg/L		01/20/20 07:46	01/20/20 18:48	1
Beryllium	**0.011**		0.0040	0.0040	mg/L		01/20/20 07:46	01/20/20 18:48	1
Boron	**0.34**		0.10	0.050	mg/L		01/20/20 07:46	01/20/20 18:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/20 07:46	01/22/20 11:10	1
Calcium	**73**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:48	1
Chromium	**0.22**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:48	1
Cobalt	**0.059**		0.025	0.010	mg/L		01/20/20 07:46	01/22/20 11:10	1
Iron	**180**		0.40	0.20	mg/L		01/20/20 07:46	01/20/20 18:48	1
Lead	**0.11**		0.0075	0.0075	mg/L		01/20/20 07:46	01/22/20 11:10	1
Manganese	**1.1**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:48	1
Nickel	**0.22**		0.025	0.010	mg/L		01/20/20 07:46	01/22/20 11:10	1
Potassium	**86**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 18:48	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/20 07:46	01/20/20 18:48	1
Silver	**0.018**	**J**	0.025	0.010	mg/L		01/20/20 07:46	01/20/20 18:48	1
Zinc	**0.47**	**J**	0.50	0.020	mg/L		01/20/20 07:46	01/20/20 18:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:53	01/21/20 19:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/20/20 07:46	01/20/20 20:43	1
Thallium	**0.0035**		0.0020	0.0020	mg/L		01/20/20 07:46	01/21/20 12:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00024**		0.00020	0.00020	mg/L		01/21/20 14:00	01/22/20 11:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J**	0.018	0.0059	mg/Kg	☼	01/20/20 14:10	01/21/20 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.25	mg/Kg	☼	01/22/20 09:50	01/22/20 14:32	1
pH	**8.3**		0.2	0.2	SU			01/21/20 10:35	1

Definitions/Glossary

Client: Andrews Engineering Inc. Job ID: 500-176260-5
Project/Site: IDOT - AE7-032

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
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.
F1	MS and/or MSD Recovery is outside acceptance 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. The data are considered valid because the absolute difference is less than the RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc. Job ID: 500-176260-5
Project/Site: IDOT - AE7-032

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-5

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: AE7-32A	COC No.: 1 of 1
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project No.: PTB/WO:184-006/32A TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ___ Other Sampler: Chad Nelson	Lab Job No.: 500-176260 Sample Temp: 2.7, 3.1

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.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
10	2900V-30-B01-1	1/13	1330	S	X	X					X	X	X	X	X					
11	2900V-30-B01-2		1335																	
12	2900V-30-B02-1		1345																	
13	2900V-30-B02-2		1350																	
14	2900V-30-B03-1		1355																	
15	2900V-30-B03-2		1400																	
16	2900V-30-B04-1		1410																	
17	2900V-30-B04R		1415																	
	~~2900V-30-B05-1~~																			
	~~2900V-30-B05-2DUP~~			↓	↓	↓					↓	↓	↓	↓	↓					

Relinquished by:	Date/Time	Received by:	Date/Time
[signature]	1/13 1633	Stephanie Hermann TA	1-13-20 1633
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176393-2
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/30/2020 4:59:00 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Client Sample ID: 2900V-30-B05-1
Date Collected: 01/15/20 09:25
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-2
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Acetone	**0.0083**	**J**	0.017	0.0073	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Bromomethane	<0.0042	*	0.0042	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*01/16/20 17:30*	*01/27/20 14:35*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*	*01/16/20 17:30*	*01/27/20 14:35*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*01/16/20 17:30*	*01/27/20 14:35*	*1*
Toluene-d8 (Surr)	*94*		*75 - 124*	*01/16/20 17:30*	*01/27/20 14:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Client Sample ID: 2900V-30-B05-1
Date Collected: 01/15/20 09:25
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-2
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
2-Chlorophenol	<0.20	*	0.20	0.069	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
2-Nitroaniline	<0.20	*	0.20	0.055	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
3,3'-Dichlorobenzidine	<0.20	*	0.20	0.057	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
3-Nitroaniline	<0.40	*	0.40	0.13	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
4-Nitrophenol	<0.82	*	0.82	0.39	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Carbazole	<0.20	*	0.20	0.10	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Client Sample ID: 2900V-30-B05-1

Date Collected: 01/15/20 09:25
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-2

Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Isophorone	<0.20	*	0.20	0.046	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Nitrobenzene	<0.040	*	0.040	0.010	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.048	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	01/25/20 07:12	01/28/20 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*69*		*31 - 143*	*01/25/20 07:12*	*01/28/20 19:39*	*1*
2-Fluorobiphenyl	*96*		*43 - 145*	*01/25/20 07:12*	*01/28/20 19:39*	*1*
2-Fluorophenol	*113*		*31 - 166*	*01/25/20 07:12*	*01/28/20 19:39*	*1*
Nitrobenzene-d5	*99*		*37 - 147*	*01/25/20 07:12*	*01/28/20 19:39*	*1*
Phenol-d5	*109*		*30 - 153*	*01/25/20 07:12*	*01/28/20 19:39*	*1*
Terphenyl-d14	*118*		*42 - 157*	*01/25/20 07:12*	*01/28/20 19:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Arsenic	**2.2**		0.59	0.20	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Barium	**69**		0.59	0.068	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Beryllium	**0.91**		0.24	0.055	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Boron	**17**		3.0	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Cadmium	**0.10**	**J**	0.12	0.021	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Calcium	**34000**	**B**	12	2.0	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Chromium	**22**		0.59	0.29	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Cobalt	**7.4**		0.30	0.078	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Copper	**16**		0.59	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Iron	**17000**		12	6.2	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Lead	**9.3**		0.30	0.14	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Magnesium	**19000**		5.9	2.9	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Manganese	**150**		0.59	0.086	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Nickel	**25**		0.59	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Potassium	**3600**		30	11	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Silver	**0.26**	**J**	0.30	0.077	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Sodium	**670**		59	8.8	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Thallium	<0.59		0.59	0.30	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Vanadium	**23**		0.30	0.070	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1
Zinc	**55**		1.2	0.52	mg/Kg	☼	01/22/20 06:55	01/22/20 19:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:12	01/29/20 10:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 13:54	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 13:54	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 13:54	1

Client Sample ID: 2900V-30-B05-1

Date Collected: 01/15/20 09:25
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-2

Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 13:54	1
Manganese	**0.51**		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 13:54	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 13:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.067**		0.050	0.010	mg/L		01/24/20 15:15	01/28/20 03:33	1
Barium	**0.44**	**J**	0.50	0.050	mg/L		01/24/20 15:15	01/28/20 03:33	1
Beryllium	**0.0074**		0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 03:33	1
Boron	**0.18**		0.10	0.050	mg/L		01/24/20 15:15	01/28/20 03:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 03:33	1
Calcium	**32**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 03:33	1
Chromium	**0.14**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:33	1
Cobalt	**0.048**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:33	1
Iron	**150**		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 03:33	1
Lead	**0.087**		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 03:33	1
Manganese	**0.60**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:33	1
Nickel	**0.19**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:33	1
Potassium	**28**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 03:33	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/20 15:15	01/28/20 03:33	1
Silver	**0.011**	**J**	0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:33	1
Zinc	**0.51**		0.50	0.020	mg/L		01/24/20 15:15	01/28/20 03:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:12	01/29/20 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:01	1
Thallium	**0.0041**		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00053**		0.00020	0.00020	mg/L		01/28/20 10:50	01/29/20 10:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.020	0.0065	mg/Kg	☼	01/27/20 14:20	01/28/20 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.29	mg/Kg	☼	01/28/20 13:05	01/28/20 16:12	1
pH	**8.5**		0.2	0.2	SU			01/22/20 19:53	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Client Sample ID: 2900V-30-B05-2 Dup

Date Collected: 01/15/20 09:35
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-3

Matrix: Solid
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00068	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00091	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
1,1-Dichloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
1,2-Dichloroethane	<0.0053		0.0053	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00075	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
2-Butanone (MEK)	<0.0053		0.0053	0.0024	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Acetone	**0.048**		0.021	0.0093	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Bromomethane	<0.0053	*	0.0053	0.0020	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Carbon tetrachloride	<0.0021		0.0021	0.00062	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Chlorobenzene	<0.0021		0.0021	0.00079	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00060	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Dibromochloromethane	<0.0021		0.0021	0.00070	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00063	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Tetrachloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00094	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00075	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Trichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Vinyl chloride	<0.0021		0.0021	0.00094	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1
Xylenes, Total	<0.0043		0.0043	0.00068	mg/Kg	☼	01/16/20 17:30	01/27/20 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*01/16/20 17:30*	*01/27/20 15:01*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*	*01/16/20 17:30*	*01/27/20 15:01*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*01/16/20 17:30*	*01/27/20 15:01*	*1*
Toluene-d8 (Surr)	*92*		*75 - 124*	*01/16/20 17:30*	*01/27/20 15:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
1,2-Dichlorobenzene	<0.22		0.22	0.051	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
1,3-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Client Sample ID: 2900V-30-B05-2 Dup
Date Collected: 01/15/20 09:35
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-3
Matrix: Solid
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
2,4-Dinitrophenol	<0.87		0.87	0.76	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
2,6-Dinitrotoluene	<0.22		0.22	0.085	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
2-Chlorophenol	<0.22	*	0.22	0.073	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
2-Methylnaphthalene	<0.087		0.087	0.0079	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
2-Nitroaniline	<0.22	*	0.22	0.058	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
3 & 4 Methylphenol	<0.22		0.22	0.072	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
3,3'-Dichlorobenzidine	<0.22	*	0.22	0.060	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
3-Nitroaniline	<0.43	*	0.43	0.13	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
4,6-Dinitro-2-methylphenol	<0.87		0.87	0.35	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
4-Chloroaniline	<0.87		0.87	0.20	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
4-Nitrophenol	<0.87	*	0.87	0.41	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Acenaphthene	<0.043		0.043	0.0077	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Acenaphthylene	<0.043		0.043	0.0057	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Benzo[a]anthracene	<0.043		0.043	0.0058	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Benzo[a]pyrene	<0.043		0.043	0.0083	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Benzo[b]fluoranthene	<0.043		0.043	0.0093	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Benzo[k]fluoranthene	<0.043		0.043	0.013	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.065	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.079	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Carbazole	<0.22	*	0.22	0.11	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Chrysene	<0.043		0.043	0.012	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0083	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Dibenzofuran	<0.22		0.22	0.050	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Di-n-butyl phthalate	<0.22		0.22	0.066	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Fluoranthene	<0.043		0.043	0.0080	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Fluorene	<0.043		0.043	0.0061	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Hexachlorobenzene	<0.087		0.087	0.010	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Hexachlorobutadiene	<0.22		0.22	0.068	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Hexachlorocyclopentadiene	<0.87		0.87	0.25	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Hexachloroethane	<0.22		0.22	0.065	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Client Sample ID: 2900V-30-B05-2 Dup

Date Collected: 01/15/20 09:35
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-3

Matrix: Solid
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Isophorone	<0.22	*	0.22	0.048	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Nitrobenzene	<0.043	*	0.043	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
N-Nitrosodi-n-propylamine	<0.087		0.087	0.053	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
N-Nitrosodiphenylamine	<0.22	*	0.22	0.051	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Pentachlorophenol	<0.87		0.87	0.69	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Phenanthrene	<0.043		0.043	0.0060	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Phenol	<0.22		0.22	0.096	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1
Pyrene	<0.043		0.043	0.0086	mg/Kg	☼	01/25/20 07:12	01/28/20 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*31 - 143*	*01/25/20 07:12*	*01/28/20 20:03*	*1*
2-Fluorobiphenyl	*64*		*43 - 145*	*01/25/20 07:12*	*01/28/20 20:03*	*1*
2-Fluorophenol	*79*		*31 - 166*	*01/25/20 07:12*	*01/28/20 20:03*	*1*
Nitrobenzene-d5	*67*		*37 - 147*	*01/25/20 07:12*	*01/28/20 20:03*	*1*
Phenol-d5	*78*		*30 - 153*	*01/25/20 07:12*	*01/28/20 20:03*	*1*
Terphenyl-d14	*114*		*42 - 157*	*01/25/20 07:12*	*01/28/20 20:03*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.26	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Arsenic	**4.0**		0.66	0.22	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Barium	**93**		0.66	0.075	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Beryllium	**0.82**		0.26	0.061	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Boron	**5.3**		3.3	0.31	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Cadmium	**0.095**	**J**	0.13	0.024	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Calcium	**2200**	**B**	13	2.2	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Chromium	**15**		0.66	0.32	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Cobalt	**6.7**		0.33	0.086	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Copper	**10**		0.66	0.18	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Iron	**15000**		13	6.8	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Lead	**14**		0.33	0.15	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Magnesium	**2100**		6.6	3.3	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Manganese	**480**		0.66	0.095	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Nickel	**17**		0.66	0.19	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Potassium	**1700**		33	12	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Selenium	**0.64**	**J**	0.66	0.39	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Silver	**0.31**	**J**	0.33	0.085	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Sodium	**1500**		66	9.7	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Thallium	**0.45**	**J**	0.66	0.33	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Vanadium	**24**		0.33	0.077	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1
Zinc	**58**		1.3	0.58	mg/Kg	☼	01/22/20 06:55	01/22/20 19:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 14:07	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:07	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 14:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 14:07	1

Client Sample ID: 2900V-30-B05-2 Dup

Date Collected: 01/15/20 09:35
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-3

Matrix: Solid
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.37**		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:07	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:07	1

Method: 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		01/24/20 15:15	01/28/20 03:37	1
Barium	**0.85**		0.50	0.050	mg/L		01/24/20 15:15	01/28/20 03:37	1
Beryllium	**0.0083**		0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 03:37	1
Boron	**0.13**		0.10	0.050	mg/L		01/24/20 15:15	01/28/20 03:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 03:37	1
Calcium	**21**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 03:37	1
Chromium	**0.20**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:37	1
Cobalt	**0.040**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:37	1
Iron	**170**		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 03:37	1
Lead	**0.067**		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 03:37	1
Manganese	**0.82**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:37	1
Nickel	**0.19**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:37	1
Potassium	**21**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 03:37	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/20 15:15	01/28/20 03:37	1
Silver	**0.014**	**J**	0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:37	1
Zinc	**0.67**		0.50	0.020	mg/L		01/24/20 15:15	01/28/20 03:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:12	01/29/20 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:03	1
Thallium	**0.0026**		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00055**		0.00033	0.00033	mg/L		01/28/20 10:50	01/29/20 10:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.020	0.0066	mg/Kg	☼	01/27/20 14:20	01/28/20 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.64		0.64	0.32	mg/Kg	☼	01/28/20 13:05	01/28/20 16:13	1
pH	**8.0**		0.2	0.2	SU			01/22/20 19:57	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Client Sample ID: 2900V-30-B05-2
Date Collected: 01/15/20 09:30
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-4
Matrix: Solid
Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
1,1-Dichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0015	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Acetone	**0.027**		0.020	0.0085	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Bromomethane	<0.0049	*	0.0049	0.0019	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Chlorobenzene	<0.0020		0.0020	0.00072	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Chloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Methylene Chloride	**0.0019**	**J**	0.0049	0.0019	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	☼	01/16/20 17:30	01/27/20 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*01/16/20 17:30*	*01/27/20 15:26*	*1*
4-Bromofluorobenzene (Surr)	*96*		*75 - 131*	*01/16/20 17:30*	*01/27/20 15:26*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*01/16/20 17:30*	*01/27/20 15:26*	*1*
Toluene-d8 (Surr)	*92*		*75 - 124*	*01/16/20 17:30*	*01/27/20 15:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
1,2-Dichlorobenzene	<0.22		0.22	0.051	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
1,3-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1

Client Sample ID: 2900V-30-B05-2
Date Collected: 01/15/20 09:30
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-4
Matrix: Solid
Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
2,4-Dinitrophenol	<0.87		0.87	0.76	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
2,6-Dinitrotoluene	<0.22		0.22	0.084	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
2-Chloronaphthalene	<0.22		0.22	0.047	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
2-Chlorophenol	<0.22	*	0.22	0.073	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
2-Methylnaphthalene	<0.087		0.087	0.0079	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
2-Nitroaniline	<0.22	*	0.22	0.058	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
3 & 4 Methylphenol	<0.22		0.22	0.072	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
3,3'-Dichlorobenzidine	<0.22	*	0.22	0.060	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
3-Nitroaniline	<0.43	*	0.43	0.13	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
4,6-Dinitro-2-methylphenol	<0.87		0.87	0.35	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
4-Chloroaniline	<0.87		0.87	0.20	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
4-Nitrophenol	<0.87	*	0.87	0.41	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Acenaphthene	<0.043		0.043	0.0077	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Acenaphthylene	<0.043		0.043	0.0057	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Benzo[a]anthracene	<0.043		0.043	0.0058	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Benzo[a]pyrene	<0.043		0.043	0.0083	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Benzo[b]fluoranthene	<0.043		0.043	0.0093	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Benzo[k]fluoranthene	<0.043		0.043	0.013	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.078	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Carbazole	<0.22	*	0.22	0.11	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Chrysene	<0.043		0.043	0.012	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0083	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Dibenzofuran	<0.22		0.22	0.050	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Di-n-butyl phthalate	<0.22		0.22	0.065	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Fluoranthene	<0.043		0.043	0.0080	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Fluorene	<0.043		0.043	0.0060	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Hexachlorobenzene	<0.087		0.087	0.010	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Hexachlorobutadiene	<0.22		0.22	0.067	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Hexachlorocyclopentadiene	<0.87		0.87	0.25	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Hexachloroethane	<0.22		0.22	0.065	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Client Sample ID: 2900V-30-B05-2

Date Collected: 01/15/20 09:30
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-4

Matrix: Solid
Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Isophorone	<0.22	*	0.22	0.048	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Nitrobenzene	<0.043	*	0.043	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
N-Nitrosodi-n-propylamine	<0.087		0.087	0.052	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
N-Nitrosodiphenylamine	<0.22	*	0.22	0.051	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Pentachlorophenol	<0.87		0.87	0.69	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Phenanthrene	<0.043		0.043	0.0060	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Phenol	<0.22		0.22	0.095	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1
Pyrene	<0.043		0.043	0.0085	mg/Kg	☼	01/25/20 07:12	01/28/20 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*57*		*31 - 143*	*01/25/20 07:12*	*01/28/20 20:28*	*1*
2-Fluorobiphenyl	*75*		*43 - 145*	*01/25/20 07:12*	*01/28/20 20:28*	*1*
2-Fluorophenol	*93*		*31 - 166*	*01/25/20 07:12*	*01/28/20 20:28*	*1*
Nitrobenzene-d5	*81*		*37 - 147*	*01/25/20 07:12*	*01/28/20 20:28*	*1*
Phenol-d5	*86*		*30 - 153*	*01/25/20 07:12*	*01/28/20 20:28*	*1*
Terphenyl-d14	*102*		*42 - 157*	*01/25/20 07:12*	*01/28/20 20:28*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.25	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Arsenic	**4.3**		0.65	0.22	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Barium	**97**		0.65	0.074	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Beryllium	**0.98**		0.26	0.060	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Boron	**6.9**		3.2	0.30	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Cadmium	**0.054**	**J**	0.13	0.023	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Calcium	**1800**	**B**	13	2.2	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Chromium	**25**		0.65	0.32	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Cobalt	**7.2**		0.32	0.085	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Copper	**20**		0.65	0.18	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Iron	**21000**		13	6.7	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Lead	**13**		0.32	0.15	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Magnesium	**3600**		6.5	3.2	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Manganese	**270**		0.65	0.094	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Nickel	**25**		0.65	0.19	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Potassium	**2100**		32	11	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Selenium	**0.69**		0.65	0.38	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Silver	**0.35**		0.32	0.083	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Sodium	**1700**		65	9.6	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Thallium	<0.65		0.65	0.32	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Vanadium	**36**		0.32	0.076	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1
Zinc	**96**		1.3	0.57	mg/Kg	☼	01/22/20 06:55	01/22/20 19:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 14:11	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:11	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 14:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 14:11	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Client Sample ID: 2900V-30-B05-2
Date Collected: 01/15/20 09:30
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-4
Matrix: Solid
Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.37		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:11	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.027	J	0.050	0.010	mg/L		01/24/20 15:15	01/28/20 03:41	1
Barium	0.77		0.50	0.050	mg/L		01/24/20 15:15	01/28/20 03:41	1
Beryllium	0.0071		0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 03:41	1
Boron	0.11		0.10	0.050	mg/L		01/24/20 15:15	01/28/20 03:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 03:41	1
Calcium	18		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 03:41	1
Chromium	0.18		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:41	1
Cobalt	0.034		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:41	1
Iron	140		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 03:41	1
Lead	0.066		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 03:41	1
Manganese	0.69		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:41	1
Nickel	0.17		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:41	1
Potassium	18		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 03:41	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/20 15:15	01/28/20 03:41	1
Silver	0.015	J	0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:41	1
Zinc	0.63		0.50	0.020	mg/L		01/24/20 15:15	01/28/20 03:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:12	01/29/20 11:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:05	1
Thallium	0.0024		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00059		0.00033	0.00033	mg/L		01/28/20 10:50	01/29/20 10:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0063	mg/Kg	☼	01/27/20 14:20	01/28/20 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.65		0.65	0.32	mg/Kg	☼	01/28/20 13:05	01/28/20 16:13	1
pH	7.7		0.2	0.2	SU			01/22/20 20:01	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Client Sample ID: 2900V-30-B06-1
Date Collected: 01/15/20 09:40
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-5
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
2-Butanone (MEK)	**0.0065**		0.0042	0.0019	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Acetone	**0.041**		0.017	0.0073	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Bromomethane	<0.0042	*	0.0042	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*01/16/20 17:30*	*01/27/20 15:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 131*	*01/16/20 17:30*	*01/27/20 15:52*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*01/16/20 17:30*	*01/27/20 15:52*	*1*
Toluene-d8 (Surr)	*93*		*75 - 124*	*01/16/20 17:30*	*01/27/20 15:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Client Sample ID: 2900V-30-B06-1
Date Collected: 01/15/20 09:40
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-5
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
2-Chlorophenol	<0.20	*	0.20	0.067	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
2-Nitroaniline	<0.20	*	0.20	0.052	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
3,3'-Dichlorobenzidine	<0.20	*	0.20	0.055	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
3-Nitroaniline	<0.39	*	0.39	0.12	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
4-Nitrophenol	<0.79	*	0.79	0.37	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Carbazole	<0.20	*	0.20	0.097	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Client Sample ID: 2900V-30-B06-1
Date Collected: 01/15/20 09:40
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-5
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Isophorone	<0.20	*	0.20	0.044	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Nitrobenzene	<0.039	*	0.039	0.0097	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.046	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	01/25/20 07:12	01/28/20 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*59*		*31 - 143*	*01/25/20 07:12*	*01/28/20 20:53*	*1*
2-Fluorobiphenyl	*80*		*43 - 145*	*01/25/20 07:12*	*01/28/20 20:53*	*1*
2-Fluorophenol	*101*		*31 - 166*	*01/25/20 07:12*	*01/28/20 20:53*	*1*
Nitrobenzene-d5	*83*		*37 - 147*	*01/25/20 07:12*	*01/28/20 20:53*	*1*
Phenol-d5	*99*		*30 - 153*	*01/25/20 07:12*	*01/28/20 20:53*	*1*
Terphenyl-d14	*112*		*42 - 157*	*01/25/20 07:12*	*01/28/20 20:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Arsenic	**7.1**		0.57	0.20	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Barium	**62**		0.57	0.065	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Beryllium	**0.85**		0.23	0.053	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Boron	**13**		2.9	0.27	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Cadmium	**0.19**		0.11	0.021	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Calcium	**33000**	**B**	11	1.9	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Chromium	**17**		0.57	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Cobalt	**13**		0.29	0.075	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Copper	**22**		0.57	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Iron	**20000**		11	6.0	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Lead	**16**		0.29	0.13	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Magnesium	**20000**		5.7	2.8	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Manganese	**390**		0.57	0.083	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Nickel	**32**		0.57	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Potassium	**2700**		29	10	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Silver	**0.28**	**J**	0.29	0.074	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Sodium	**1000**		57	8.5	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Vanadium	**21**		0.29	0.068	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1
Zinc	**69**		1.1	0.50	mg/Kg	☼	01/22/20 06:55	01/22/20 19:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:12	01/29/20 10:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 14:15	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:15	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 14:15	1

Client Sample ID: 2900V-30-B06-1

Date Collected: 01/15/20 09:40
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-5

Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 14:15	1
Manganese	**1.4**		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:15	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.072**		0.050	0.010	mg/L		01/24/20 15:15	01/28/20 03:45	1
Barium	**0.50**		0.50	0.050	mg/L		01/24/20 15:15	01/28/20 03:45	1
Beryllium	**0.0064**		0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 03:45	1
Boron	**0.17**		0.10	0.050	mg/L		01/24/20 15:15	01/28/20 03:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 03:45	1
Calcium	**37**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 03:45	1
Chromium	**0.13**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:45	1
Cobalt	**0.056**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:45	1
Iron	**140**		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 03:45	1
Lead	**0.079**		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 03:45	1
Manganese	**1.2**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:45	1
Nickel	**0.18**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:45	1
Potassium	**26**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 03:45	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/20 15:15	01/28/20 03:45	1
Silver	<0.025		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:45	1
Zinc	**0.42**	**J**	0.50	0.020	mg/L		01/24/20 15:15	01/28/20 03:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:12	01/29/20 11:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:07	1
Thallium	**0.0040**		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00034**		0.00020	0.00020	mg/L		01/28/20 10:50	01/29/20 10:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.018	0.0059	mg/Kg	☼	01/27/20 14:20	01/28/20 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.29	mg/Kg	☼	01/28/20 13:05	01/28/20 16:13	1
pH	**8.6**		0.2	0.2	SU			01/22/20 20:05	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Client Sample ID: 2900V-30-B06-2
Date Collected: 01/15/20 09:45
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-6
Matrix: Solid
Percent Solids: 84.4

Method: 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	☼	01/16/20 17:30	01/27/20 16:18	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Acetone	**0.11**		0.016	0.0070	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Bromomethane	<0.0040	*	0.0040	0.0015	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	01/16/20 17:30	01/27/20 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*	*01/16/20 17:30*	*01/27/20 16:18*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*01/16/20 17:30*	*01/27/20 16:18*	*1*
Dibromofluoromethane	*108*		*75 - 126*	*01/16/20 17:30*	*01/27/20 16:18*	*1*
Toluene-d8 (Surr)	*90*		*75 - 124*	*01/16/20 17:30*	*01/27/20 16:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1

Client Sample ID: 2900V-30-B06-2
Date Collected: 01/15/20 09:45
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-6
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
2-Chlorophenol	<0.19	*	0.19	0.065	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
2-Nitroaniline	<0.19	*	0.19	0.051	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
3,3'-Dichlorobenzidine	<0.19	*	0.19	0.053	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
3-Nitroaniline	<0.38	*	0.38	0.12	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
4-Nitrophenol	<0.77	*	0.77	0.36	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Carbazole	<0.19	*	0.19	0.095	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Client Sample ID: 2900V-30-B06-2
Date Collected: 01/15/20 09:45
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-6
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Isophorone	<0.19	*	0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Nitrobenzene	<0.038	*	0.038	0.0095	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	01/25/20 07:12	01/28/20 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*31 - 143*	*01/25/20 07:12*	*01/28/20 14:26*	*1*
2-Fluorobiphenyl	*103*		*43 - 145*	*01/25/20 07:12*	*01/28/20 14:26*	*1*
2-Fluorophenol	*106*		*31 - 166*	*01/25/20 07:12*	*01/28/20 14:26*	*1*
Nitrobenzene-d5	*99*		*37 - 147*	*01/25/20 07:12*	*01/28/20 14:26*	*1*
Phenol-d5	*78*		*30 - 153*	*01/25/20 07:12*	*01/28/20 14:26*	*1*
Terphenyl-d14	*123*		*42 - 157*	*01/25/20 07:12*	*01/28/20 14:26*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Arsenic	**8.1**		0.57	0.20	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Barium	**34**		0.57	0.065	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Beryllium	**0.77**		0.23	0.053	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Boron	**13**		2.9	0.27	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Cadmium	**0.15**		0.11	0.021	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Calcium	**50000**	**B**	110	19	mg/Kg	☼	01/22/20 06:55	01/23/20 20:33	10
Chromium	**15**		0.57	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Cobalt	**14**		0.29	0.075	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Copper	**26**		0.57	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Iron	**19000**		11	5.9	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Lead	**17**		0.29	0.13	mg/Kg	☼	01/22/20 06:55	01/23/20 20:28	1
Magnesium	**21000**		5.7	2.8	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Manganese	**330**		0.57	0.083	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Nickel	**32**		0.57	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Potassium	**2600**		29	10	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Silver	**0.28**	**J**	0.29	0.074	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Sodium	**730**		57	8.5	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Vanadium	**18**		0.29	0.067	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1
Zinc	**77**		1.1	0.50	mg/Kg	☼	01/22/20 06:55	01/22/20 19:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:12	01/29/20 10:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 14:19	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:19	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 14:19	1

Client Sample ID: 2900V-30-B06-2

Date Collected: 01/15/20 09:45
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-6

Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 14:19	1
Manganese	**0.70**		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:19	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:19	1

Method: 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		01/24/20 15:15	01/28/20 03:49	1
Barium	**0.46**	**J**	0.50	0.050	mg/L		01/24/20 15:15	01/28/20 03:49	1
Beryllium	**0.0082**		0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 03:49	1
Boron	**0.20**		0.10	0.050	mg/L		01/24/20 15:15	01/28/20 03:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 03:49	1
Calcium	**63**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 03:49	1
Chromium	**0.16**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:49	1
Cobalt	**0.050**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:49	1
Iron	**170**		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 03:49	1
Lead	**0.083**		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 03:49	1
Manganese	**0.86**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:49	1
Nickel	**0.21**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:49	1
Potassium	**32**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 03:49	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/20 15:15	01/28/20 03:49	1
Silver	**0.012**	**J**	0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:49	1
Zinc	**0.50**		0.50	0.020	mg/L		01/24/20 15:15	01/28/20 03:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:12	01/29/20 11:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:09	1
Thallium	**0.0037**		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00031**		0.00020	0.00020	mg/L		01/28/20 10:50	01/29/20 10:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.014**	**J**	0.017	0.0057	mg/Kg	☼	01/27/20 14:20	01/28/20 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.29	mg/Kg	☼	01/28/20 13:05	01/28/20 16:14	1
pH	**8.6**		0.2	0.2	SU			01/22/20 20:12	1

Definitions/Glossary

Client: Andrews Engineering Inc. Job ID: 500-176393-2
Project/Site: IDOT - AE7-032

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-2

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: AEJ-32A	COC No.: 1 of 1
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: ~~TekLab, Inc.~~ Test America Address: ~~5445 Horseshoe Lake Road~~ Collinsville, IL 62234 Phone: ~~877-344-1003~~ Contact: ~~Shelly Hennessy~~ email: ~~shennessy@teklabinc.com~~	Project No.: PTB/WO: 184-006/32A TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other Sampler: Chad Nelson	Lab Job No.: 500-176393 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.

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
2	2900U-30-B05-1	1/15	0925	S	X	X					X	X	X	X	X					
3	2900U-30-B05-Dup		0935	S	X	X					X	X	X	X	X					
4	2900U-30B05-2		0930	S	X	X					X	X	X	X	X					

Relinquished by:	Date/Time	Received by:	Date/Time
Matt Ell	9/15 1430	[signature]	9/15/20 1430
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory		Project Name: AE7-32A	COC No.: 1 of 1
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab:	Test America - Chicago	Project No.: PTB/WO:184-006/32A	Lab Job No.: 500-176393
	Address:	2417 Bond Street University Park, IL 60484	TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ___ Other	Sample Temp:
	Phone:	708-534-5200		
	Contact:	Dick Wright	Chad Nelson	
	email:	richard.wright@testamericainc.com	Sampler:	

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.

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

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				Comments
5	2900V-30-1306-1	1/15	0940	S	X	X					X	X	X	X	X					
6	2900V-30-1306-2	1/15	0945	↓	↓	↓					↓	↓	↓	↓	↓					

Relinquished by:	Date/Time	Received by:	Date/Time
[signature]	1/15 1430	[signature]	1/15/20 1430
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1840 East Glenwood Dyer Road

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52913 (Decimal Degrees) Longitude: -87.57159 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 182

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52913 Longitude: - 87.57159

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 2900V-31-B02 WAS SAMPLED ADJACENT TO SITE 2900V-31. SEE TABLE 3m AND FIGURE 3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176260-6.

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 20, 2020
Date:

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

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-31
Residence

Sample ID	2900V-31-B02	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-4					
Sample Date	1/13/2020	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0					
Sample pH	8					
Matrix	Soil					
No Contaminants of Concern Noted.						

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176260-6
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/28/2020 5:10:10 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: 2900V-31-B02 **Lab Sample ID: 500-176260-19**
Date Collected: 01/13/20 11:30 **Matrix: Solid**
Date Received: 01/13/20 16:33 **Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Acetone	<0.017		0.017	0.0072	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Chloroform	<0.0017		0.0017	0.00057	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00048	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Tetrachloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00073	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Trichloroethene	**0.00061**	**J**	0.0017	0.00056	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	01/14/20 17:12	01/22/20 12:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*01/14/20 17:12*	*01/22/20 12:06*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 131*	*01/14/20 17:12*	*01/22/20 12:06*	*1*
Dibromofluoromethane	*98*		*75 - 126*	*01/14/20 17:12*	*01/22/20 12:06*	*1*
Toluene-d8 (Surr)	*92*		*75 - 124*	*01/14/20 17:12*	*01/22/20 12:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
2,2'-oxybis[1-chloropropane]	<0.20	*	0.20	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1

Client Sample ID: 2900V-31-B02 **Lab Sample ID: 500-176260-19**
Date Collected: 01/13/20 11:30 **Matrix: Solid**
Date Received: 01/13/20 16:33 **Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
2,4-Dinitrophenol	<0.78		0.78	0.69	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
2-Methylnaphthalene	<0.078		0.078	0.0072	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Acenaphthene	**0.0073**	**J**	0.039	0.0070	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Bis(2-chloroethyl)ether	<0.20	*	0.20	0.058	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1

Client Sample ID: 2900V-31-B02 **Lab Sample ID: 500-176260-19**
Date Collected: 01/13/20 11:30 **Matrix: Solid**
Date Received: 01/13/20 16:33 **Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Phenanthrene	**0.0077**	**J**	0.039	0.0054	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	01/22/20 15:00	01/23/20 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*62*		*31 - 143*	*01/22/20 15:00*	*01/23/20 19:01*	*1*
2-Fluorobiphenyl	*91*		*43 - 145*	*01/22/20 15:00*	*01/23/20 19:01*	*1*
2-Fluorophenol	*105*		*31 - 166*	*01/22/20 15:00*	*01/23/20 19:01*	*1*
Nitrobenzene-d5	*91*		*37 - 147*	*01/22/20 15:00*	*01/23/20 19:01*	*1*
Phenol-d5	*108*		*30 - 153*	*01/22/20 15:00*	*01/23/20 19:01*	*1*
Terphenyl-d14	*123*		*42 - 157*	*01/22/20 15:00*	*01/23/20 19:01*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.57**	**J B**	1.1	0.22	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Arsenic	**8.1**		0.56	0.19	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Barium	**110**		0.56	0.063	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Beryllium	**0.88**		0.22	0.052	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Boron	**17**	**B**	2.8	0.26	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Cadmium	**0.15**	**B**	0.11	0.020	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Calcium	**58000**	**B**	110	19	mg/Kg	☼	01/16/20 16:26	01/20/20 11:40	10
Chromium	**20**		0.56	0.27	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Cobalt	**11**		0.28	0.073	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Copper	**23**		0.56	0.16	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Iron	**21000**	**B**	11	5.8	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Lead	**45**		0.28	0.13	mg/Kg	☼	01/16/20 16:26	01/20/20 11:36	1
Magnesium	**21000**		5.6	2.8	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Manganese	**300**		0.56	0.080	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Nickel	**28**		0.56	0.16	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Potassium	**3200**		28	9.8	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Silver	**3.0**		0.28	0.072	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Sodium	**630**		56	8.2	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Thallium	**1.4**		0.56	0.28	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Vanadium	**24**		0.28	0.065	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1
Zinc	**96**		1.1	0.49	mg/Kg	☼	01/16/20 16:26	01/18/20 05:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/20/20 07:53	01/20/20 20:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:53	01/20/20 20:59	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:59	1
Iron	<0.40		0.40	0.20	mg/L		01/20/20 07:53	01/20/20 20:59	1

Client Sample ID: 2900V-31-B02 **Lab Sample ID: 500-176260-19**
Date Collected: 01/13/20 11:30 **Matrix: Solid**
Date Received: 01/13/20 16:33 **Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:53	01/20/20 20:59	1
Manganese	**0.23**		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:59	1
Nickel	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 20:59	1

Method: 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		01/20/20 07:46	01/22/20 11:26	1
Barium	**0.92**		0.50	0.050	mg/L		01/20/20 07:46	01/20/20 19:11	1
Beryllium	**0.011**		0.0040	0.0040	mg/L		01/20/20 07:46	01/20/20 19:11	1
Boron	**0.40**		0.10	0.050	mg/L		01/20/20 07:46	01/20/20 19:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/20 07:46	01/22/20 11:26	1
Calcium	**70**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 19:11	1
Chromium	**0.24**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 19:11	1
Cobalt	**0.041**		0.025	0.010	mg/L		01/20/20 07:46	01/22/20 11:26	1
Iron	**180**		0.40	0.20	mg/L		01/20/20 07:46	01/20/20 19:11	1
Lead	**0.078**		0.0075	0.0075	mg/L		01/20/20 07:46	01/22/20 11:26	1
Manganese	**0.78**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 19:11	1
Nickel	**0.17**		0.025	0.010	mg/L		01/20/20 07:46	01/22/20 11:26	1
Potassium	**78**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 19:11	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/20 07:46	01/20/20 19:11	1
Silver	**0.015**	**J**	0.025	0.010	mg/L		01/20/20 07:46	01/20/20 19:11	1
Zinc	**0.46**	**J**	0.50	0.020	mg/L		01/20/20 07:46	01/20/20 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:53	01/21/20 19:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/20/20 07:46	01/20/20 20:51	1
Thallium	**0.0030**		0.0020	0.0020	mg/L		01/20/20 07:46	01/21/20 12:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/20 14:00	01/22/20 11:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**		0.018	0.0062	mg/Kg	☼	01/20/20 14:10	01/21/20 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.25	mg/Kg	☼	01/22/20 09:50	01/22/20 14:35	1
pH	**8.0**		0.2	0.2	SU			01/21/20 10:45	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-6

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-6

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-6

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-6

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-6

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

test America

Client Contact	Laboratory
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: ~~TekLab, Inc.~~ Address: ~~5445 Horseshoe Lake Road~~ ~~Collinsville, IL 62234~~ Phone: ~~877-344-1003~~ Contact: ~~Shelly Hennessy~~ email: ~~shennessy@teklabinc.com~~

Project Name: AE7-032A

Project No.: PTS/WO: 184-006/32A

TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other

Chad Welson

Sampler:

COC No.: 1 of 1

Lab Job No.: 500-176260

Sample Temp: 2.7, 3.1

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.

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
18	2900U-31-B01	1/13	1125	S	X	X					X	X	X	X	X					
19	2900U-31-B02	1/13	1130	S	X	X					X	X	X	X	X					

Relinquished by:	Date/Time	Received by:	Date/Time
[signature]	1/13 1633	Stephanie Hernandez TA	1-13-20 1633
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1800 block of East Glenwood Dyer Road (north side of Glenwood Dyer Road at Haven Estates Lane)

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52876 (Decimal Degrees) Longitude: -87.57074 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 408

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52876 Longitude: - 87.57074

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 2900V-32-B01, 2900V-32-B02 AND 2900V-32-B03 WERE SAMPLED ADJACENT TO SITE 2900V-32. SEE TABLE 3n AND FIGURES 3 AND 4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBERS: 500-176260-7 AND 500-176393-3.

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 20, 2020
Date:

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

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-32
Storage Yard

Sample ID	2900V-32-B01	2900V-32-B02	2900V-32-B03	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-3	0-3	0-3					
Sample Date	1/13/2020	1/13/2020	1/15/2020					
PID	0	0	0					
Sample pH	7.8	8.2	7.8	[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
Matrix	Soil	Soil	Soil					
No Contaminants of Concern Noted.								

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176260-7
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/28/2020 5:10:26 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-7

Client Sample ID: 2900V-32-B01
Date Collected: 01/13/20 11:20
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-20
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Acetone	**0.026**		0.017	0.0074	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Chloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Trichloroethene	**0.00060**	**J**	0.0017	0.00057	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	01/14/20 17:12	01/22/20 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*01/14/20 17:12*	*01/22/20 12:32*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 131*	*01/14/20 17:12*	*01/22/20 12:32*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*01/14/20 17:12*	*01/22/20 12:32*	*1*
Toluene-d8 (Surr)	*91*		*75 - 124*	*01/14/20 17:12*	*01/22/20 12:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
2,2'-oxybis[1-chloropropane]	<0.19	*	0.19	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1

Client Sample ID: 2900V-32-B01
Date Collected: 01/13/20 11:20
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-20
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Bis(2-chloroethyl)ether	<0.19	*	0.19	0.056	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-7

Client Sample ID: 2900V-32-B01
Date Collected: 01/13/20 11:20
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-20
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	01/22/20 15:00	01/23/20 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*31 - 143*	*01/22/20 15:00*	*01/23/20 19:25*	*1*
2-Fluorobiphenyl	*84*		*43 - 145*	*01/22/20 15:00*	*01/23/20 19:25*	*1*
2-Fluorophenol	*97*		*31 - 166*	*01/22/20 15:00*	*01/23/20 19:25*	*1*
Nitrobenzene-d5	*82*		*37 - 147*	*01/22/20 15:00*	*01/23/20 19:25*	*1*
Phenol-d5	*97*		*30 - 153*	*01/22/20 15:00*	*01/23/20 19:25*	*1*
Terphenyl-d14	*115*		*42 - 157*	*01/22/20 15:00*	*01/23/20 19:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.78**	**J B**	1.1	0.22	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Arsenic	**7.1**		0.56	0.19	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Barium	**61**		0.56	0.064	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Beryllium	**0.84**		0.22	0.052	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Boron	**18**	**B**	2.8	0.26	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Cadmium	**0.089**	**J B**	0.11	0.020	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Calcium	**75000**	**B**	110	19	mg/Kg	☼	01/16/20 16:26	01/20/20 11:49	10
Chromium	**19**		0.56	0.28	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Cobalt	**11**		0.28	0.074	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Copper	**18**		0.56	0.16	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Iron	**20000**	**B**	11	5.8	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Lead	**7.0**		0.28	0.13	mg/Kg	☼	01/16/20 16:26	01/20/20 11:44	1
Magnesium	**25000**		5.6	2.8	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Manganese	**350**		0.56	0.081	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Nickel	**29**		0.56	0.16	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Potassium	**3600**		28	9.9	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Silver	**2.7**		0.28	0.072	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Sodium	**360**		56	8.3	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Thallium	**1.3**		0.56	0.28	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Vanadium	**23**		0.28	0.066	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1
Zinc	**52**		1.1	0.49	mg/Kg	☼	01/16/20 16:26	01/18/20 05:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:53	01/20/20 21:12	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 21:12	1
Iron	<0.40		0.40	0.20	mg/L		01/20/20 07:53	01/20/20 21:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:53	01/20/20 21:12	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-7

Client Sample ID: 2900V-32-B01
Date Collected: 01/13/20 11:20
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-20
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.46**		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 21:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.038**	**J**	0.050	0.010	mg/L		01/20/20 07:46	01/22/20 11:30	1
Barium	**1.0**		0.50	0.050	mg/L		01/20/20 07:46	01/20/20 19:15	1
Beryllium	**0.0099**		0.0040	0.0040	mg/L		01/20/20 07:46	01/20/20 19:15	1
Boron	**0.22**		0.10	0.050	mg/L		01/20/20 07:46	01/20/20 19:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/20 07:46	01/22/20 11:30	1
Calcium	**55**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 19:15	1
Chromium	**0.14**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 19:15	1
Cobalt	**0.022**	**J**	0.025	0.010	mg/L		01/20/20 07:46	01/22/20 11:30	1
Iron	**120**		0.40	0.20	mg/L		01/20/20 07:46	01/20/20 19:15	1
Lead	**0.054**		0.0075	0.0075	mg/L		01/20/20 07:46	01/22/20 11:30	1
Manganese	**0.56**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 19:15	1
Nickel	**0.089**		0.025	0.010	mg/L		01/20/20 07:46	01/22/20 11:30	1
Potassium	**99**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 19:15	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/20 07:46	01/20/20 19:15	1
Silver	**0.012**	**J**	0.025	0.010	mg/L		01/20/20 07:46	01/20/20 19:15	1
Zinc	**0.26**	**J**	0.50	0.020	mg/L		01/20/20 07:46	01/20/20 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/20/20 07:46	01/20/20 20:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:46	01/21/20 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/21/20 14:00	01/22/20 11:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.012**	**J**	0.019	0.0063	mg/Kg	☼	01/20/20 14:10	01/21/20 10:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.25	mg/Kg	☼	01/22/20 09:50	01/22/20 14:35	1
pH	**7.8**		0.2	0.2	SU			01/21/20 10:47	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-7

Client Sample ID: 2900V-32-B02
Date Collected: 01/13/20 11:15
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-21
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Acetone	**0.064**		0.017	0.0073	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Trichloroethene	**0.00063**	**J**	0.0017	0.00057	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	01/14/20 17:12	01/22/20 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*01/14/20 17:12*	*01/22/20 12:57*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*	*01/14/20 17:12*	*01/22/20 12:57*	*1*
Dibromofluoromethane	*98*		*75 - 126*	*01/14/20 17:12*	*01/22/20 12:57*	*1*
Toluene-d8 (Surr)	*91*		*75 - 124*	*01/14/20 17:12*	*01/22/20 12:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
2,2'-oxybis[1-chloropropane]	<0.20	*	0.20	0.045	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1

Client Sample ID: 2900V-32-B02
Date Collected: 01/13/20 11:15
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-21
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Bis(2-chloroethyl)ether	<0.20	*	0.20	0.058	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-7

Client Sample ID: 2900V-32-B02
Date Collected: 01/13/20 11:15
Date Received: 01/13/20 16:33

Lab Sample ID: 500-176260-21
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	01/22/20 15:00	01/23/20 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*31 - 143*	*01/22/20 15:00*	*01/23/20 19:50*	*1*
2-Fluorobiphenyl	*94*		*43 - 145*	*01/22/20 15:00*	*01/23/20 19:50*	*1*
2-Fluorophenol	*110*		*31 - 166*	*01/22/20 15:00*	*01/23/20 19:50*	*1*
Nitrobenzene-d5	*96*		*37 - 147*	*01/22/20 15:00*	*01/23/20 19:50*	*1*
Phenol-d5	*113*		*30 - 153*	*01/22/20 15:00*	*01/23/20 19:50*	*1*
Terphenyl-d14	*129*		*42 - 157*	*01/22/20 15:00*	*01/23/20 19:50*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.67**	**J B**	1.1	0.22	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Arsenic	**6.8**		0.56	0.19	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Barium	**53**		0.56	0.064	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Beryllium	**0.81**		0.22	0.052	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Boron	**16**	**B**	2.8	0.26	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Cadmium	**0.11**	**B**	0.11	0.020	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Calcium	**74000**	**B**	110	19	mg/Kg	☼	01/16/20 16:26	01/20/20 11:57	10
Chromium	**18**		0.56	0.28	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Cobalt	**11**		0.28	0.073	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Copper	**17**		0.56	0.16	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Iron	**19000**	**B**	11	5.8	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Lead	**6.8**		0.28	0.13	mg/Kg	☼	01/16/20 16:26	01/20/20 11:53	1
Magnesium	**24000**		5.6	2.8	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Manganese	**340**		0.56	0.081	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Nickel	**28**		0.56	0.16	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Potassium	**3400**		28	9.9	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Silver	**2.7**		0.28	0.072	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Sodium	**530**		56	8.3	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Thallium	**1.1**		0.56	0.28	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Vanadium	**21**		0.28	0.066	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1
Zinc	**51**		1.1	0.49	mg/Kg	☼	01/16/20 16:26	01/18/20 06:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/20/20 07:53	01/20/20 21:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/20 07:53	01/20/20 21:30	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 21:30	1
Iron	<0.40		0.40	0.20	mg/L		01/20/20 07:53	01/20/20 21:30	1

Client Sample ID: 2900V-32-B02 **Lab Sample ID: 500-176260-21**
Date Collected: 01/13/20 11:15 **Matrix: Solid**
Date Received: 01/13/20 16:33 **Percent Solids: 84.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/20 07:53	01/20/20 21:30	1
Manganese	**0.40**		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 21:30	1
Nickel	<0.025		0.025	0.010	mg/L		01/20/20 07:53	01/20/20 21:30	1

Method: 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		01/20/20 07:46	01/22/20 11:34	1
Barium	**0.84**	**F1**	0.50	0.050	mg/L		01/20/20 07:46	01/20/20 19:19	1
Beryllium	**0.010**		0.0040	0.0040	mg/L		01/20/20 07:46	01/20/20 19:19	1
Boron	**0.34**		0.10	0.050	mg/L		01/20/20 07:46	01/20/20 19:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/20 07:46	01/22/20 11:34	1
Calcium	**75**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 19:19	1
Chromium	**0.22**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 19:19	1
Cobalt	**0.036**		0.025	0.010	mg/L		01/20/20 07:46	01/22/20 11:34	1
Iron	**170**		0.40	0.20	mg/L		01/20/20 07:46	01/20/20 19:19	1
Lead	**0.075**		0.0075	0.0075	mg/L		01/20/20 07:46	01/22/20 11:34	1
Manganese	**0.71**		0.025	0.010	mg/L		01/20/20 07:46	01/20/20 19:19	1
Nickel	**0.15**		0.025	0.010	mg/L		01/20/20 07:46	01/22/20 11:34	1
Potassium	**71**		2.5	0.50	mg/L		01/20/20 07:46	01/20/20 19:19	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/20 07:46	01/20/20 19:19	1
Silver	**0.015**	**J**	0.025	0.010	mg/L		01/20/20 07:46	01/20/20 19:19	1
Zinc	**0.41**	**J**	0.50	0.020	mg/L		01/20/20 07:46	01/20/20 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/20/20 07:53	01/21/20 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		01/20/20 07:46	01/20/20 20:59	1
Thallium	**0.0022**		0.0020	0.0020	mg/L		01/20/20 07:46	01/21/20 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00020**		0.00020	0.00020	mg/L		01/21/20 14:00	01/22/20 11:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.012**	**J**	0.019	0.0063	mg/Kg	☼	01/20/20 14:10	01/21/20 10:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.29	mg/Kg	☼	01/22/20 09:50	01/22/20 14:36	1
pH	**8.2**		0.2	0.2	SU			01/21/20 10:50	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-7

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.

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 is outside acceptance 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. The data are considered valid because the absolute difference is less than the RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-7

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-7

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-7

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176260-7

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: AE7-32A Project No.: PTB/WO: 184-006/32A TAT: ☒ 5 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other Chad Nelson **Sampler:**

COC No.: ____ of ____

Lab Job No.: 500-176260

Sample Temp: 2.7, 3.1

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.

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
20	2900V-32-B01	1/13	1120	S	X	X					X	X	X	X	X					
21	2900V-32-B02	"	1115	"	"	"					"	"	"	"	"					
	~~2900V-32-B03~~	"		"	"	"					"	"	"	"	"					

Relinquished by: [signature]	Date/Time 1/13 1633	Received by: Stephanie Hermann TA	Date/Time 1-13-20 1633
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176393-3
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/30/2020 4:59:24 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: 2900V-32-B03 **Lab Sample ID: 500-176393-7**
Date Collected: 01/15/20 13:30 **Matrix: Solid**
Date Received: 01/15/20 14:30 **Percent Solids: 79.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Bromomethane	<0.0047	*	0.0047	0.0018	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Carbon disulfide	<0.0047		0.0047	0.00099	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	01/16/20 17:30	01/27/20 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*01/16/20 17:30*	*01/27/20 16:43*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*	*01/16/20 17:30*	*01/27/20 16:43*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*01/16/20 17:30*	*01/27/20 16:43*	*1*
Toluene-d8 (Surr)	*92*		*75 - 124*	*01/16/20 17:30*	*01/27/20 16:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1

Client Sample ID: 2900V-32-B03
Date Collected: 01/15/20 13:30
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-7
Matrix: Solid
Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
2-Chlorophenol	<0.21	*	0.21	0.070	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
2-Nitroaniline	<0.21	*	0.21	0.055	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
3,3'-Dichlorobenzidine	<0.21	*	0.21	0.058	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
3-Nitroaniline	<0.41	*	0.41	0.13	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
4-Nitrophenol	<0.83	*	0.83	0.39	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Carbazole	<0.21	*	0.21	0.10	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-3

Client Sample ID: 2900V-32-B03
Date Collected: 01/15/20 13:30
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-7
Matrix: Solid
Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Isophorone	<0.21	*	0.21	0.046	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Nitrobenzene	<0.041	*	0.041	0.010	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
N-Nitrosodiphenylamine	<0.21	*	0.21	0.048	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	01/25/20 07:12	01/28/20 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*95*		*31 - 143*	*01/25/20 07:12*	*01/28/20 14:54*	*1*
2-Fluorobiphenyl	*99*		*43 - 145*	*01/25/20 07:12*	*01/28/20 14:54*	*1*
2-Fluorophenol	*106*		*31 - 166*	*01/25/20 07:12*	*01/28/20 14:54*	*1*
Nitrobenzene-d5	*93*		*37 - 147*	*01/25/20 07:12*	*01/28/20 14:54*	*1*
Phenol-d5	*73*		*30 - 153*	*01/25/20 07:12*	*01/28/20 14:54*	*1*
Terphenyl-d14	*133*		*42 - 157*	*01/25/20 07:12*	*01/28/20 14:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.24	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Arsenic	**5.2**		0.63	0.21	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Barium	**73**		0.63	0.071	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Beryllium	**0.81**		0.25	0.059	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Boron	**6.3**		3.1	0.29	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Cadmium	**0.065**	**J**	0.13	0.023	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Calcium	**5300**	**B**	13	2.1	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Chromium	**18**		0.63	0.31	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Cobalt	**16**		0.31	0.082	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Copper	**13**		0.63	0.18	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Iron	**19000**		13	6.5	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Lead	**20**		0.31	0.14	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Magnesium	**4800**		6.3	3.1	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Manganese	**410**		0.63	0.091	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Nickel	**19**		0.63	0.18	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Potassium	**1900**		31	11	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Selenium	**0.45**	**J**	0.63	0.37	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Silver	**0.23**	**J**	0.31	0.081	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Sodium	**760**		63	9.3	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Thallium	<0.63		0.63	0.31	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Vanadium	**25**		0.31	0.074	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1
Zinc	**48**		1.3	0.55	mg/Kg	☼	01/22/20 06:55	01/22/20 19:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 14:24	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:24	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 14:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 14:24	1

Client Sample ID: 2900V-32-B03
Date Collected: 01/15/20 13:30
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-7
Matrix: Solid
Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.088**		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:24	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.043**	**J**	0.050	0.010	mg/L		01/24/20 15:15	01/28/20 03:53	1
Barium	**0.58**		0.50	0.050	mg/L		01/24/20 15:15	01/28/20 03:53	1
Beryllium	**0.0071**		0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 03:53	1
Boron	**0.11**		0.10	0.050	mg/L		01/24/20 15:15	01/28/20 03:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 03:53	1
Calcium	**17**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 03:53	1
Chromium	**0.18**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:53	1
Cobalt	**0.045**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:53	1
Iron	**150**		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 03:53	1
Lead	**0.085**		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 03:53	1
Manganese	**0.40**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:53	1
Nickel	**0.17**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:53	1
Potassium	**22**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 03:53	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/20 15:15	01/28/20 03:53	1
Silver	<0.025		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 03:53	1
Zinc	**0.36**	**J**	0.50	0.020	mg/L		01/24/20 15:15	01/28/20 03:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:12	01/29/20 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:11	1
Thallium	**0.0027**		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00044**		0.00020	0.00020	mg/L		01/28/20 10:50	01/29/20 11:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.015**	**J**	0.020	0.0068	mg/Kg	☼	01/27/20 14:20	01/28/20 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.25	mg/Kg	☼	01/28/20 13:05	01/28/20 16:15	1
pH	**7.8**		0.2	0.2	SU			01/22/20 20:16	1

Definitions/Glossary

Client: Andrews Engineering Inc. Job ID: 500-176393-3
Project/Site: IDOT - AE7-032

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-3

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-3

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-3

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-3

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING

Client Contact	Laboratory	Project Name: AE7-32A	COC No.: 1 of 1
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Test America Lab: ~~TekLab, Inc.~~ Address: ~~5445 Horseshoe Lake Road~~ ~~Collinsville, IL 62234~~ Phone: ~~877-344-1003~~ Contact: ~~Shelly Hennessy~~ email: ~~shennessy@teklabinc.com~~	Project No.: PTB: WO: 184-006/32A TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other Chad Nelson Sampler:	Lab Job No.: 500-176393 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.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
7	29000V-32-B03	1/15	1330	S	X	X					X	X	X	X	X					
8	Trip Blank #4	1/15																		

Relinquished by:	Date/Time	Received by:	Date/Time
[signature]	1/15 1430	[signature]	1/15/20 1430
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1930 East Glenwood Dyer Road

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52845 (Decimal Degrees) Longitude: -87.56992 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 250

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52845 Longitude: - 87.56992

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 2900V-33-B01 AND 2900V-33-B02 WERE SAMPLED ADJACENT TO SITE 2900V-33. SEE TABLE 3o AND FIGURE 4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176393-4.

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 20, 2020
Date:

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

LICENSED PROFESSIONAL GEOLOGIST
SAVO RADULOVIC
196-001303
ILLINOIS

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-33
Donald Sobczak Office

Sample ID	2900V-33-B01	2900V-33-B02	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-3	0-3					
Sample Date	1/15/2020	1/15/2020					
PID	0	0					
Sample pH	8.5	8.7	[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
Matrix	Soil	Soil					
No Contaminant of Concern Noted.							

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176393-4
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/30/2020 4:59:53 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: 2900V-33-B01 **Lab Sample ID: 500-176393-9**
Date Collected: 01/15/20 13:15 **Matrix: Solid**
Date Received: 01/15/20 14:30 **Percent Solids: 83.9**

Method: 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	☼	01/16/20 17:30	01/27/20 17:34	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
2-Butanone (MEK)	**0.0038**	**J**	0.0040	0.0018	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Acetone	**0.041**		0.016	0.0070	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Bromomethane	<0.0040	*	0.0040	0.0015	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Methylene Chloride	**0.0016**	**J**	0.0040	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	01/16/20 17:30	01/27/20 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*	*01/16/20 17:30*	*01/27/20 17:34*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 131*	*01/16/20 17:30*	*01/27/20 17:34*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*01/16/20 17:30*	*01/27/20 17:34*	*1*
Toluene-d8 (Surr)	*92*		*75 - 124*	*01/16/20 17:30*	*01/27/20 17:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1

Client Sample ID: 2900V-33-B01
Date Collected: 01/15/20 13:15
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-9
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
2-Chlorophenol	<0.20	*	0.20	0.067	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
2-Nitroaniline	<0.20	*	0.20	0.052	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
3,3'-Dichlorobenzidine	<0.20	*	0.20	0.055	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
3-Nitroaniline	<0.39	*	0.39	0.12	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
4-Nitrophenol	<0.79	*	0.79	0.37	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Carbazole	<0.20	*	0.20	0.097	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-4

Client Sample ID: 2900V-33-B01
Date Collected: 01/15/20 13:15
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-9
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Isophorone	<0.20	*	0.20	0.044	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Nitrobenzene	<0.039	*	0.039	0.0097	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.046	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	01/25/20 07:12	01/28/20 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*31 - 143*	*01/25/20 07:12*	*01/28/20 15:23*	*1*
2-Fluorobiphenyl	*96*		*43 - 145*	*01/25/20 07:12*	*01/28/20 15:23*	*1*
2-Fluorophenol	*104*		*31 - 166*	*01/25/20 07:12*	*01/28/20 15:23*	*1*
Nitrobenzene-d5	*93*		*37 - 147*	*01/25/20 07:12*	*01/28/20 15:23*	*1*
Phenol-d5	*74*		*30 - 153*	*01/25/20 07:12*	*01/28/20 15:23*	*1*
Terphenyl-d14	*127*		*42 - 157*	*01/25/20 07:12*	*01/28/20 15:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Arsenic	**4.6**		0.58	0.20	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Barium	**71**		0.58	0.067	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Beryllium	**0.89**		0.23	0.055	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Boron	**16**		2.9	0.27	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Cadmium	**0.079**	**J**	0.12	0.021	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Calcium	**52000**	**B**	120	20	mg/Kg	☼	01/22/20 06:55	01/23/20 20:41	10
Chromium	**20**		0.58	0.29	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Cobalt	**11**		0.29	0.077	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Copper	**16**		0.58	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Iron	**18000**		12	6.1	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Lead	**11**		0.29	0.14	mg/Kg	☼	01/22/20 06:55	01/23/20 20:37	1
Magnesium	**21000**		5.8	2.9	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Manganese	**300**		0.58	0.085	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Nickel	**29**		0.58	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Potassium	**3200**		29	10	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Silver	**0.31**		0.29	0.075	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Sodium	**1200**		58	8.7	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Vanadium	**23**		0.29	0.069	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1
Zinc	**51**		1.2	0.51	mg/Kg	☼	01/22/20 06:55	01/22/20 19:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:12	01/29/20 10:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 14:28	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:28	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 14:28	1

Client Sample ID: 2900V-33-B01

Date Collected: 01/15/20 13:15
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-9

Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 14:28	1
Manganese	**0.77**		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:28	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:28	1

Method: 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		01/24/20 15:15	01/28/20 04:05	1
Barium	**0.65**		0.50	0.050	mg/L		01/24/20 15:15	01/28/20 04:05	1
Beryllium	**0.0092**		0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 04:05	1
Boron	**0.21**		0.10	0.050	mg/L		01/24/20 15:15	01/28/20 04:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 04:05	1
Calcium	**59**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:05	1
Chromium	**0.18**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:05	1
Cobalt	**0.075**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:05	1
Iron	**180**		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 04:05	1
Lead	**0.12**		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 04:05	1
Manganese	**1.3**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:05	1
Nickel	**0.25**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:05	1
Potassium	**32**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:05	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/20 15:15	01/28/20 04:05	1
Silver	**0.014**	**J**	0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:05	1
Zinc	**0.46**	**J**	0.50	0.020	mg/L		01/24/20 15:15	01/28/20 04:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:12	01/29/20 11:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:13	1
Thallium	**0.0028**		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00032**		0.00020	0.00020	mg/L		01/28/20 10:50	01/29/20 11:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**J**	0.018	0.0059	mg/Kg	☼	01/27/20 14:20	01/28/20 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.27	mg/Kg	☼	01/28/20 13:05	01/28/20 16:16	1
pH	**8.5**		0.2	0.2	SU			01/22/20 20:20	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-4

Client Sample ID: 2900V-33-B02
Date Collected: 01/15/20 13:05
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-10
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Bromomethane	<0.0043	*	0.0043	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*01/16/20 17:30*	*01/27/20 18:00*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 131*	*01/16/20 17:30*	*01/27/20 18:00*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*01/16/20 17:30*	*01/27/20 18:00*	*1*
Toluene-d8 (Surr)	*93*		*75 - 124*	*01/16/20 17:30*	*01/27/20 18:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-4

Client Sample ID: 2900V-33-B02
Date Collected: 01/15/20 13:05
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-10
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
2-Chlorophenol	<0.20	*	0.20	0.068	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
2-Nitroaniline	<0.20	*	0.20	0.054	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
3,3'-Dichlorobenzidine	<0.20	*	0.20	0.056	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
3-Nitroaniline	<0.40	*	0.40	0.12	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
4-Nitrophenol	<0.80	*	0.80	0.38	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Anthracene	**0.0078**	**J**	0.040	0.0067	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Benzo[a]anthracene	**0.037**	**J**	0.040	0.0054	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Benzo[a]pyrene	**0.050**		0.040	0.0077	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Benzo[b]fluoranthene	**0.065**		0.040	0.0086	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Benzo[g,h,i]perylene	**0.036**	**J**	0.040	0.013	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Benzo[k]fluoranthene	**0.017**	**J**	0.040	0.012	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Carbazole	<0.20	*	0.20	0.099	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Chrysene	**0.053**		0.040	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Fluoranthene	**0.10**		0.040	0.0074	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-4

Client Sample ID: 2900V-33-B02
Date Collected: 01/15/20 13:05
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-10
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**0.027**	**J**	0.040	0.010	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Isophorone	<0.20	*	0.20	0.045	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Nitrobenzene	<0.040	*	0.040	0.0099	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.047	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Phenanthrene	**0.058**		0.040	0.0055	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1
Pyrene	**0.070**		0.040	0.0079	mg/Kg	☼	01/25/20 07:12	01/28/20 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*31 - 143*	*01/25/20 07:12*	*01/28/20 15:51*	*1*
2-Fluorobiphenyl	*95*		*43 - 145*	*01/25/20 07:12*	*01/28/20 15:51*	*1*
2-Fluorophenol	*100*		*31 - 166*	*01/25/20 07:12*	*01/28/20 15:51*	*1*
Nitrobenzene-d5	*89*		*37 - 147*	*01/25/20 07:12*	*01/28/20 15:51*	*1*
Phenol-d5	*72*		*30 - 153*	*01/25/20 07:12*	*01/28/20 15:51*	*1*
Terphenyl-d14	*127*		*42 - 157*	*01/25/20 07:12*	*01/28/20 15:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Arsenic	**7.5**		0.60	0.21	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Barium	**66**		0.60	0.069	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Beryllium	**0.92**		0.24	0.056	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Boron	**8.9**		3.0	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Cadmium	**0.25**		0.12	0.022	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Calcium	**4000**	**B**	12	2.0	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Chromium	**20**		0.60	0.30	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Cobalt	**13**		0.30	0.079	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Copper	**20**		0.60	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Iron	**20000**		12	6.3	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Lead	**33**		0.30	0.14	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Magnesium	**4900**		6.0	3.0	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Manganese	**380**		0.60	0.088	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Nickel	**29**		0.60	0.18	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Potassium	**2100**		30	11	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Selenium	**0.42**	**J**	0.60	0.36	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Silver	**0.27**	**J**	0.30	0.078	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Sodium	**1600**		60	8.9	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Vanadium	**25**		0.30	0.071	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1
Zinc	**91**		1.2	0.53	mg/Kg	☼	01/22/20 06:55	01/22/20 19:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:12	01/29/20 10:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 14:32	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:32	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 14:32	1

Client Sample ID: 2900V-33-B02

Date Collected: 01/15/20 13:05
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-10

Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 14:32	1
Manganese	**0.21**		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:32	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.091**		0.050	0.010	mg/L		01/24/20 15:15	01/28/20 04:09	1
Barium	**0.63**		0.50	0.050	mg/L		01/24/20 15:15	01/28/20 04:09	1
Beryllium	**0.0090**		0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 04:09	1
Boron	**0.20**		0.10	0.050	mg/L		01/24/20 15:15	01/28/20 04:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 04:09	1
Calcium	**32**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:09	1
Chromium	**0.18**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:09	1
Cobalt	**0.052**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:09	1
Iron	**190**		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 04:09	1
Lead	**0.16**		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 04:09	1
Manganese	**0.75**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:09	1
Nickel	**0.25**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:09	1
Potassium	**28**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:09	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/20 15:15	01/28/20 04:09	1
Silver	**0.013**	**J**	0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:09	1
Zinc	**0.58**		0.50	0.020	mg/L		01/24/20 15:15	01/28/20 04:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:12	01/29/20 11:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:19	1
Thallium	**0.0039**		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00052**	**F1**	0.00020	0.00020	mg/L		01/28/20 10:50	01/29/20 11:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.019	0.0064	mg/Kg	☼	01/27/20 14:20	01/28/20 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.28	mg/Kg	☼	01/28/20 13:05	01/28/20 16:16	1
pH	**8.7**		0.2	0.2	SU			01/22/20 20:24	1

Definitions/Glossary

Client: Andrews Engineering Inc. Job ID: 500-176393-4
Project/Site: IDOT - AE7-032

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-4

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-4

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-4

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: AE7-32A Project No.: PTB/WO:184-006/32A TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other Sampler: Chad Nelson

COC No.: 1 of 1

Lab Job No.: 500-176393

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.

Matrix Key:

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
9	2900V-33-1301	1/15	1315	S	X	X					X	X	X	X	X					
10	2900V-33-1302	1/15	1305	↓	↓	↓					↓	↓	↓	↓	↓					

Relinquished by:	Date/Time 1/15 1430	Received by:	Date/Time 1/15/20 1430
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1945-1965 East Glenwood Dyer Road

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52783 (Decimal Degrees) Longitude: -87.56906 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 937

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52783 Longitude: - 87.56906

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 2900V-35-B01 AND 2900V-35-B02 WERE SAMPLED ADJACENT TO SITE 2900V-35. SEE TABLE 3q AND FIGURE 4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176393-6.

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 20, 2020
Date:

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

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-35
Residences

Sample ID	2900V-35-B01	2900V-35-B02	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-7	0-7					
Sample Date	1/15/2020	1/15/2020	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0	0					
Sample pH	8.5	8.6					
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176393-6
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/30/2020 5:00:44 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-6

Client Sample ID: 2900V-35-B01
Date Collected: 01/15/20 10:15
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-13
Matrix: Solid
Percent Solids: 86.4

Method: 8260B - Volatile Organic Compounds (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	☼	01/16/20 17:30	01/27/20 19:16	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00048	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00065	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
1,1-Dichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
1,1-Dichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
1,2-Dichloropropane	<0.0015		0.0015	0.00039	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00053	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
2-Butanone (MEK)	<0.0038		0.0038	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0011	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Acetone	**0.021**		0.015	0.0066	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Bromoform	<0.0015		0.0015	0.00044	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Bromomethane	<0.0038	*	0.0038	0.0014	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Carbon disulfide	<0.0038		0.0038	0.00079	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Carbon tetrachloride	<0.0015		0.0015	0.00044	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Chlorobenzene	<0.0015		0.0015	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Chloroethane	<0.0038		0.0038	0.0011	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Chloromethane	<0.0038		0.0038	0.0015	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00042	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Dibromochloromethane	<0.0015		0.0015	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Ethylbenzene	<0.0015		0.0015	0.00072	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00044	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Methylene Chloride	**0.0016**	**J**	0.0038	0.0015	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Toluene	<0.0015		0.0015	0.00038	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00067	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00053	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Trichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Vinyl chloride	<0.0015		0.0015	0.00067	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1
Xylenes, Total	<0.0030		0.0030	0.00048	mg/Kg	☼	01/16/20 17:30	01/27/20 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*01/16/20 17:30*	*01/27/20 19:16*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*	*01/16/20 17:30*	*01/27/20 19:16*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*01/16/20 17:30*	*01/27/20 19:16*	*1*
Toluene-d8 (Surr)	*94*		*75 - 124*	*01/16/20 17:30*	*01/27/20 19:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-6

Client Sample ID: 2900V-35-B01
Date Collected: 01/15/20 10:15
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-13
Matrix: Solid
Percent Solids: 86.4

Method: 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	0.083	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
2-Chlorophenol	<0.18	*	0.18	0.062	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
2-Nitroaniline	<0.18	*	0.18	0.049	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
3,3'-Dichlorobenzidine	<0.18	*	0.18	0.051	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
3-Nitroaniline	<0.36	*	0.36	0.11	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
4-Nitrophenol	<0.73	*	0.73	0.35	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Carbazole	<0.18	*	0.18	0.091	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Fluoranthene	**0.034**	**J**	0.036	0.0068	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1

Client Sample ID: 2900V-35-B01 **Lab Sample ID: 500-176393-13**
Date Collected: 01/15/20 10:15 **Matrix: Solid**
Date Received: 01/15/20 14:30 **Percent Solids: 86.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Isophorone	<0.18	*	0.18	0.041	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Nitrobenzene	<0.036	*	0.036	0.0091	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.045	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
N-Nitrosodiphenylamine	<0.18	*	0.18	0.043	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	01/25/20 07:12	01/28/20 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*82*		*31 - 143*	*01/25/20 07:12*	*01/28/20 20:31*	*1*
2-Fluorobiphenyl	*98*		*43 - 145*	*01/25/20 07:12*	*01/28/20 20:31*	*1*
2-Fluorophenol	*99*		*31 - 166*	*01/25/20 07:12*	*01/28/20 20:31*	*1*
Nitrobenzene-d5	*92*		*37 - 147*	*01/25/20 07:12*	*01/28/20 20:31*	*1*
Phenol-d5	*75*		*30 - 153*	*01/25/20 07:12*	*01/28/20 20:31*	*1*
Terphenyl-d14	*121*		*42 - 157*	*01/25/20 07:12*	*01/28/20 20:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Arsenic	**6.4**		0.56	0.19	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Barium	**57**		0.56	0.064	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Beryllium	**0.80**		0.23	0.053	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Boron	**13**		2.8	0.26	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Cadmium	**0.17**		0.11	0.020	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Calcium	**73000**	**B**	110	19	mg/Kg	☼	01/22/20 06:55	01/23/20 20:45	10
Chromium	**16**		0.56	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Cobalt	**10**		0.28	0.074	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Copper	**19**		0.56	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Iron	**18000**		11	5.9	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Lead	**7.4**		0.28	0.13	mg/Kg	☼	01/22/20 06:55	01/23/20 10:27	1
Magnesium	**21000**		5.6	2.8	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Manganese	**300**		0.56	0.082	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Nickel	**27**		0.56	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Potassium	**2600**		28	10	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Silver	**0.14**	**J**	0.28	0.073	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Sodium	**390**		56	8.3	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Vanadium	**19**		0.28	0.066	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1
Zinc	**55**		1.1	0.49	mg/Kg	☼	01/22/20 06:55	01/22/20 19:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:12	01/29/20 11:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 15:37	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:37	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 15:37	1

Client Sample ID: 2900V-35-B01 **Lab Sample ID: 500-176393-13**
Date Collected: 01/15/20 10:15 **Matrix: Solid**
Date Received: 01/15/20 14:30 **Percent Solids: 86.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 15:37	1
Manganese	**1.0**		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:37	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.071**		0.050	0.010	mg/L		01/24/20 15:15	01/28/20 04:21	1
Barium	**0.51**		0.50	0.050	mg/L		01/24/20 15:15	01/28/20 04:21	1
Beryllium	**0.0076**		0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 04:21	1
Boron	**0.19**		0.10	0.050	mg/L		01/24/20 15:15	01/28/20 04:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 04:21	1
Calcium	**69**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:21	1
Chromium	**0.15**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:21	1
Cobalt	**0.045**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:21	1
Iron	**150**		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 04:21	1
Lead	**0.089**		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 04:21	1
Manganese	**0.76**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:21	1
Nickel	**0.19**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:21	1
Potassium	**29**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:21	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/20 15:15	01/28/20 04:21	1
Silver	<0.025		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:21	1
Zinc	**0.44**	**J**	0.50	0.020	mg/L		01/24/20 15:15	01/28/20 04:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:12	01/29/20 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:25	1
Thallium	**0.0031**		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00032**		0.00020	0.00020	mg/L		01/28/20 10:50	01/29/20 11:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.014**	**J**	0.018	0.0060	mg/Kg	☼	01/27/20 14:20	01/28/20 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.41		0.41	0.21	mg/Kg	☼	01/28/20 13:05	01/28/20 16:17	1
pH	**8.5**		0.2	0.2	SU			01/22/20 20:35	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-6

Client Sample ID: 2900V-35-B02
Date Collected: 01/15/20 10:30
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-14
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
2-Butanone (MEK)	**0.0067**		0.0043	0.0019	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Acetone	**0.035**		0.017	0.0074	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Bromomethane	<0.0043	*	0.0043	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Carbon disulfide	**0.0013**	**J**	0.0043	0.00088	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*01/16/20 17:30*	*01/27/20 19:42*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 131*	*01/16/20 17:30*	*01/27/20 19:42*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*01/16/20 17:30*	*01/27/20 19:42*	*1*
Toluene-d8 (Surr)	*93*		*75 - 124*	*01/16/20 17:30*	*01/27/20 19:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-6

Client Sample ID: 2900V-35-B02
Date Collected: 01/15/20 10:30
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-14
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
2-Chlorophenol	<0.19	*	0.19	0.065	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
2-Nitroaniline	<0.19	*	0.19	0.051	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
3,3'-Dichlorobenzidine	<0.19	*	0.19	0.053	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
3-Nitroaniline	<0.38	*	0.38	0.12	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
4-Nitrophenol	<0.76	*	0.76	0.36	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Carbazole	<0.19	*	0.19	0.095	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-6

Client Sample ID: 2900V-35-B02
Date Collected: 01/15/20 10:30
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-14
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Isophorone	<0.19	*	0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Nitrobenzene	<0.038	*	0.038	0.0095	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	01/25/20 07:12	01/28/20 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*95*		*31 - 143*	*01/25/20 07:12*	*01/28/20 21:00*	*1*
2-Fluorobiphenyl	*92*		*43 - 145*	*01/25/20 07:12*	*01/28/20 21:00*	*1*
2-Fluorophenol	*93*		*31 - 166*	*01/25/20 07:12*	*01/28/20 21:00*	*1*
Nitrobenzene-d5	*91*		*37 - 147*	*01/25/20 07:12*	*01/28/20 21:00*	*1*
Phenol-d5	*69*		*30 - 153*	*01/25/20 07:12*	*01/28/20 21:00*	*1*
Terphenyl-d14	*121*		*42 - 157*	*01/25/20 07:12*	*01/28/20 21:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.22	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Arsenic	**7.9**		0.58	0.20	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Barium	**66**		0.58	0.066	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Beryllium	**1.2**		0.23	0.054	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Boron	**12**		2.9	0.27	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Cadmium	**0.029**	**J**	0.12	0.021	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Calcium	**2100**	**B**	12	1.9	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Chromium	**25**		0.58	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Cobalt	**17**		0.29	0.075	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Copper	**25**		0.58	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Iron	**27000**		12	6.0	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Lead	**18**		0.29	0.13	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Magnesium	**5500**		5.8	2.9	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Manganese	**200**		0.58	0.083	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Nickel	**41**		0.58	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Potassium	**3000**		29	10	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Selenium	**0.42**	**J**	0.58	0.34	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Silver	**0.30**		0.29	0.074	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Sodium	**1600**		58	8.5	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Vanadium	**30**		0.29	0.068	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1
Zinc	**66**		1.2	0.50	mg/Kg	☼	01/22/20 06:55	01/22/20 19:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:12	01/29/20 11:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 15:49	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:49	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 15:49	1

Client Sample ID: 2900V-35-B02

Date Collected: 01/15/20 10:30
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-14

Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 15:49	1
Manganese	**2.4**		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:49	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.075**		0.050	0.010	mg/L		01/24/20 15:15	01/28/20 04:25	1
Barium	**0.56**		0.50	0.050	mg/L		01/24/20 15:15	01/28/20 04:25	1
Beryllium	**0.0094**		0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 04:25	1
Boron	**0.18**		0.10	0.050	mg/L		01/24/20 15:15	01/28/20 04:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 04:25	1
Calcium	**56**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:25	1
Chromium	**0.17**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:25	1
Cobalt	**0.069**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:25	1
Iron	**180**		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 04:25	1
Lead	**0.11**		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 04:25	1
Manganese	**1.1**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:25	1
Nickel	**0.23**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:25	1
Potassium	**28**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:25	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/20 15:15	01/28/20 04:25	1
Silver	**0.017**	**J**	0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:25	1
Zinc	**0.42**	**J**	0.50	0.020	mg/L		01/24/20 15:15	01/28/20 04:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:12	01/29/20 12:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:27	1
Thallium	**0.0025**		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00036**		0.00020	0.00020	mg/L		01/28/20 10:50	01/29/20 11:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**J**	0.017	0.0058	mg/Kg	☼	01/28/20 14:30	01/29/20 08:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.26	mg/Kg	☼	01/28/20 13:05	01/28/20 16:18	1
pH	**8.6**		0.2	0.2	SU			01/22/20 20:39	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-6

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-6

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-6

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-6

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-6

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: AE7-32A Project No.: PTB/WO:184-006/32A TAT: ☒ 5 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ___ Other Chad Nelson **Sampler:**

COC No.: 1 of 1

Lab Job No.: 500-176393

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.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
13	2900V-35-B01	1/15	1015	S	X	X					X	X	X	X	X					
14	2900V-35-B02	1/15	1030	↓	↓	↓					↓	↓	↓	↓	↓					

Relinquished by: Matt LW	Date/Time 1/15 1430	Received by:	Date/Time 1/15/20 1430
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1900 block of East Glenwood Dyer Road (northeast quadrant of Glenwood Dyer Road and Haven Estates Lane)

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52796 (Decimal Degrees) Longitude: -87.56878 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 414

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52796 Longitude: - 87.56878

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 2900V-36-B01, 2900V-36-B02 AND 2900V-36-B03 WERE SAMPLED ADJACENT TO SITE 2900V-36. SEE TABLE 3r AND FIGURE 4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176393-7.

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 20, 2020
Date:

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

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-36
Agricultural Land

Sample ID	2900V-36-B01		2900V-36-B02		2900V-36-B03		**Maximum Allowable Concentration**				
Sample Depth (ft)	0-3		0-3		0-3						
Sample Date	1/15/2020		1/15/2020		1/15/2020						
PID	0		0		0						
Sample pH	8.5		8.3		8.9		[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
Matrix	Soil		Soil		Soil						
Semivolatile Organic Compounds (mg/kg)											
Benzo(a)pyrene	**0.14**	**1,2**	ND		ND		0.09	0.09	0.98	1.3	2.1

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176393-7
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/30/2020 5:01:06 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-7

Client Sample ID: 2900V-36-B01
Date Collected: 01/15/20 12:45
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-15
Matrix: Solid
Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Acetone	**0.0078**	**J**	0.017	0.0075	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Bromomethane	<0.0043	*	0.0043	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*	*01/16/20 17:30*	*01/27/20 20:08*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*	*01/16/20 17:30*	*01/27/20 20:08*	*1*
Dibromofluoromethane	*104*		*75 - 126*	*01/16/20 17:30*	*01/27/20 20:08*	*1*
Toluene-d8 (Surr)	*91*		*75 - 124*	*01/16/20 17:30*	*01/27/20 20:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1

Client Sample ID: 2900V-36-B01
Date Collected: 01/15/20 12:45
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-15
Matrix: Solid
Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
2-Chlorophenol	<0.21	*	0.21	0.070	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
2-Nitroaniline	<0.21	*	0.21	0.055	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
3,3'-Dichlorobenzidine	<0.21	*	0.21	0.057	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
3-Nitroaniline	<0.41	*	0.41	0.13	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
4-Nitrophenol	<0.82	*	0.82	0.39	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Anthracene	**0.015**	**J**	0.041	0.0068	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Benzo[a]anthracene	**0.11**		0.041	0.0055	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Benzo[a]pyrene	**0.14**		0.041	0.0079	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Benzo[b]fluoranthene	**0.20**		0.041	0.0088	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Benzo[g,h,i]perylene	**0.086**		0.041	0.013	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Benzo[k]fluoranthene	**0.066**		0.041	0.012	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Carbazole	<0.21	*	0.21	0.10	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Chrysene	**0.14**		0.041	0.011	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Dibenz(a,h)anthracene	**0.019**	**J**	0.041	0.0079	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Fluoranthene	**0.30**		0.041	0.0076	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Hexachlorocyclopentadiene	<0.82		0.82	0.24	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1

Client Sample ID: 2900V-36-B01
Date Collected: 01/15/20 12:45
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-15
Matrix: Solid
Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.075		0.041	0.011	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Isophorone	<0.21	*	0.21	0.046	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Nitrobenzene	<0.041	*	0.041	0.010	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
N-Nitrosodiphenylamine	<0.21	*	0.21	0.048	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Pentachlorophenol	<0.82		0.82	0.66	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Phenanthrene	0.13		0.041	0.0057	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1
Pyrene	0.25		0.041	0.0081	mg/Kg	☼	01/25/20 07:12	01/29/20 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*42*		*31 - 143*	*01/25/20 07:12*	*01/29/20 13:34*	*1*
2-Fluorobiphenyl	*86*		*43 - 145*	*01/25/20 07:12*	*01/29/20 13:34*	*1*
2-Fluorophenol	*93*		*31 - 166*	*01/25/20 07:12*	*01/29/20 13:34*	*1*
Nitrobenzene-d5	*77*		*37 - 147*	*01/25/20 07:12*	*01/29/20 13:34*	*1*
Phenol-d5	*91*		*30 - 153*	*01/25/20 07:12*	*01/29/20 13:34*	*1*
Terphenyl-d14	*114*		*42 - 157*	*01/25/20 07:12*	*01/29/20 13:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.2	0.24	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Arsenic	8.2		0.61	0.21	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Barium	69		0.61	0.070	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Beryllium	0.97		0.24	0.057	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Boron	13		3.1	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Cadmium	0.47		0.12	0.022	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Calcium	22000	B	12	2.1	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Chromium	20		0.61	0.30	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Cobalt	15		0.31	0.080	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Copper	25		0.61	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Iron	21000		12	6.3	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Lead	72		0.31	0.14	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Magnesium	15000		6.1	3.0	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Manganese	460		0.61	0.088	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Nickel	30		0.61	0.18	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Potassium	2800		31	11	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Selenium	0.48	J	0.61	0.36	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Silver	0.27	J	0.31	0.079	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Sodium	530		61	9.0	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Vanadium	27		0.31	0.072	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1
Zinc	150		1.2	0.54	mg/Kg	☼	01/22/20 06:55	01/22/20 20:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 14:45	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:45	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 14:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 14:45	1

Client Sample ID: 2900V-36-B01

Date Collected: 01/15/20 12:45
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-15

Matrix: Solid
Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.24**		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:45	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.046**	**J**	0.050	0.010	mg/L		01/24/20 15:15	01/28/20 04:29	1
Barium	**0.51**		0.50	0.050	mg/L		01/24/20 15:15	01/28/20 04:29	1
Beryllium	**0.0061**		0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 04:29	1
Boron	**0.14**		0.10	0.050	mg/L		01/24/20 15:15	01/28/20 04:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 04:29	1
Calcium	**23**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:29	1
Chromium	**0.14**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:29	1
Cobalt	**0.034**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:29	1
Iron	**120**		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 04:29	1
Lead	**0.11**		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 04:29	1
Manganese	**0.79**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:29	1
Nickel	**0.13**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:29	1
Potassium	**22**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:29	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/20 15:15	01/28/20 04:29	1
Silver	<0.025		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:29	1
Zinc	**0.41**	**J**	0.50	0.020	mg/L		01/24/20 15:15	01/28/20 04:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:12	01/29/20 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:29	1
Thallium	**0.0022**		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00030**		0.00020	0.00020	mg/L		01/28/20 10:50	01/29/20 11:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.019	0.0064	mg/Kg	☼	01/28/20 14:30	01/29/20 08:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.28	mg/Kg	☼	01/28/20 13:05	01/28/20 16:18	1
pH	**8.5**		0.2	0.2	SU			01/22/20 20:43	1

Client Sample ID: 2900V-36-B02 **Lab Sample ID: 500-176393-16**
Date Collected: 01/15/20 12:30 **Matrix: Solid**
Date Received: 01/15/20 14:30 **Percent Solids: 84.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
2-Butanone (MEK)	<0.0040	*	0.0040	0.0018	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Acetone	**0.056**		0.016	0.0070	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Bromoform	<0.0016	*	0.0016	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*01/16/20 17:30*	*01/27/20 15:21*	*1*
4-Bromofluorobenzene (Surr)	*111*		*75 - 131*	*01/16/20 17:30*	*01/27/20 15:21*	*1*
Dibromofluoromethane	*91*		*75 - 126*	*01/16/20 17:30*	*01/27/20 15:21*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*01/16/20 17:30*	*01/27/20 15:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1

Client Sample ID: 2900V-36-B02
Date Collected: 01/15/20 12:30
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-16
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
2-Chlorophenol	<0.19	*	0.19	0.065	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
2-Nitroaniline	<0.19	*	0.19	0.051	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
3,3'-Dichlorobenzidine	<0.19	*	0.19	0.053	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
3-Nitroaniline	<0.38	*	0.38	0.12	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
4-Nitrophenol	<0.77	*	0.77	0.36	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Carbazole	<0.19	*	0.19	0.095	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1

Client Sample ID: 2900V-36-B02 — Lab Sample ID: 500-176393-16

Date Collected: 01/15/20 12:30 — **Matrix: Solid**
Date Received: 01/15/20 14:30 — **Percent Solids: 84.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Isophorone	<0.19	*	0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Nitrobenzene	<0.038	*	0.038	0.0095	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	01/25/20 07:12	01/28/20 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*31 - 143*	*01/25/20 07:12*	*01/28/20 21:28*	*1*
2-Fluorobiphenyl	*100*		*43 - 145*	*01/25/20 07:12*	*01/28/20 21:28*	*1*
2-Fluorophenol	*102*		*31 - 166*	*01/25/20 07:12*	*01/28/20 21:28*	*1*
Nitrobenzene-d5	*97*		*37 - 147*	*01/25/20 07:12*	*01/28/20 21:28*	*1*
Phenol-d5	*74*		*30 - 153*	*01/25/20 07:12*	*01/28/20 21:28*	*1*
Terphenyl-d14	*129*		*42 - 157*	*01/25/20 07:12*	*01/28/20 21:28*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Arsenic	**4.3**		0.56	0.19	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Barium	**60**		0.56	0.064	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Beryllium	**0.83**		0.22	0.052	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Boron	**14**		2.8	0.26	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Cadmium	**0.088**	**J**	0.11	0.020	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Calcium	**65000**	**B**	110	19	mg/Kg	☼	01/22/20 06:55	01/23/20 20:49	10
Chromium	**18**		0.56	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Cobalt	**9.0**		0.28	0.074	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Copper	**13**		0.56	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Iron	**17000**		11	5.8	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Lead	**5.4**		0.28	0.13	mg/Kg	☼	01/22/20 06:55	01/23/20 10:31	1
Magnesium	**21000**		5.6	2.8	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Manganese	**250**		0.56	0.081	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Nickel	**25**		0.56	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Potassium	**2800**		28	9.9	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Silver	**0.21**	**J**	0.28	0.072	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Sodium	**840**		56	8.3	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Vanadium	**21**		0.28	0.066	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1
Zinc	**46**		1.1	0.49	mg/Kg	☼	01/22/20 06:55	01/22/20 20:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 14:58	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:58	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 14:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 14:58	1

Client Sample ID: 2900V-36-B02

Date Collected: 01/15/20 12:30
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-16

Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.27**		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:58	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 14:58	1

Method: 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		01/24/20 15:15	01/28/20 04:33	1
Barium	**0.43**	**J**	0.50	0.050	mg/L		01/24/20 15:15	01/28/20 04:33	1
Beryllium	**0.0062**		0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 04:33	1
Boron	**0.19**		0.10	0.050	mg/L		01/24/20 15:15	01/28/20 04:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 04:33	1
Calcium	**47**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:33	1
Chromium	**0.13**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:33	1
Cobalt	**0.028**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:33	1
Iron	**120**		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 04:33	1
Lead	**0.059**		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 04:33	1
Manganese	**0.44**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:33	1
Nickel	**0.13**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:33	1
Potassium	**26**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:33	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/20 15:15	01/28/20 04:33	1
Silver	<0.025		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:33	1
Zinc	**0.27**	**J**	0.50	0.020	mg/L		01/24/20 15:15	01/28/20 04:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00025**		0.00020	0.00020	mg/L		01/28/20 10:50	01/29/20 11:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.017	0.0057	mg/Kg	☼	01/28/20 14:30	01/29/20 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.29	mg/Kg	☼	01/28/20 13:05	01/28/20 16:18	1
pH	**8.3**		0.2	0.2	SU			01/22/20 20:47	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-7

Client Sample ID: 2900V-36-B03
Date Collected: 01/15/20 12:20
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-17
Matrix: Solid
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
2-Butanone (MEK)	<0.0042	*	0.0042	0.0019	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Acetone	**0.036**		0.017	0.0073	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Bromoform	<0.0017	*	0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 11:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*01/16/20 17:30*	*01/27/20 11:32*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*01/16/20 17:30*	*01/27/20 11:32*	*1*
Dibromofluoromethane	*88*		*75 - 126*	*01/16/20 17:30*	*01/27/20 11:32*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*01/16/20 17:30*	*01/27/20 11:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1

Client Sample ID: 2900V-36-B03
Date Collected: 01/15/20 12:20
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-17
Matrix: Solid
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
2-Chlorophenol	<0.19	*	0.19	0.066	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
2-Nitroaniline	<0.19	*	0.19	0.052	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
3,3'-Dichlorobenzidine	<0.19	*	0.19	0.054	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
3-Nitroaniline	<0.38	*	0.38	0.12	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
4-Nitrophenol	<0.78	*	0.78	0.37	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Benzo[a]anthracene	**0.0056**	**J**	0.038	0.0052	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Benzo[b]fluoranthene	**0.0083**	**J**	0.038	0.0083	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Carbazole	<0.19	*	0.19	0.096	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Fluoranthene	**0.0089**	**J**	0.038	0.0072	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-7

Client Sample ID: 2900V-36-B03
Date Collected: 01/15/20 12:20
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-17
Matrix: Solid
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Isophorone	<0.19	*	0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Nitrobenzene	<0.038	*	0.038	0.0096	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.046	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1
Pyrene	**0.0088**	**J**	0.038	0.0077	mg/Kg	☼	01/25/20 07:12	01/29/20 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*59*		*31 - 143*	*01/25/20 07:12*	*01/29/20 11:31*	*1*
2-Fluorobiphenyl	*82*		*43 - 145*	*01/25/20 07:12*	*01/29/20 11:31*	*1*
2-Fluorophenol	*91*		*31 - 166*	*01/25/20 07:12*	*01/29/20 11:31*	*1*
Nitrobenzene-d5	*74*		*37 - 147*	*01/25/20 07:12*	*01/29/20 11:31*	*1*
Phenol-d5	*93*		*30 - 153*	*01/25/20 07:12*	*01/29/20 11:31*	*1*
Terphenyl-d14	*123*		*42 - 157*	*01/25/20 07:12*	*01/29/20 11:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.25**	**J**	1.1	0.22	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Arsenic	**4.8**		0.56	0.19	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Barium	**57**		0.56	0.064	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Beryllium	**0.90**		0.22	0.052	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Boron	**14**		2.8	0.26	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Cadmium	**0.11**		0.11	0.020	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Calcium	**54000**	**B**	110	19	mg/Kg	☼	01/22/20 06:55	01/23/20 20:57	10
Chromium	**18**		0.56	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Cobalt	**11**		0.28	0.073	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Copper	**19**		0.56	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Iron	**19000**		11	5.8	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Lead	**13**		0.28	0.13	mg/Kg	☼	01/22/20 06:55	01/23/20 20:53	1
Magnesium	**20000**		5.6	2.8	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Manganese	**310**		0.56	0.081	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Nickel	**29**		0.56	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Potassium	**2800**		28	9.9	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Selenium	**0.37**	**J**	0.56	0.33	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Silver	**0.21**	**J**	0.28	0.072	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Sodium	**680**		56	8.2	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Vanadium	**23**		0.28	0.066	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1
Zinc	**53**		1.1	0.49	mg/Kg	☼	01/22/20 06:55	01/22/20 20:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:12	01/29/20 10:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 15:02	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:02	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 15:02	1

Client Sample ID: 2900V-36-B03

Date Collected: 01/15/20 12:20
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-17

Matrix: Solid
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 15:02	1
Manganese	**0.15**		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:02	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.079**		0.050	0.010	mg/L		01/24/20 15:15	01/28/20 04:37	1
Barium	**0.61**		0.50	0.050	mg/L		01/24/20 15:15	01/28/20 04:37	1
Beryllium	**0.0091**		0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 04:37	1
Boron	**0.20**		0.10	0.050	mg/L		01/24/20 15:15	01/28/20 04:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 04:37	1
Calcium	**67**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:37	1
Chromium	**0.17**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:37	1
Cobalt	**0.049**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:37	1
Iron	**170**		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 04:37	1
Lead	**0.099**		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 04:37	1
Manganese	**0.80**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:37	1
Nickel	**0.22**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:37	1
Potassium	**32**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:37	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/20 15:15	01/28/20 04:37	1
Silver	**0.014**	**J**	0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:37	1
Zinc	**0.46**	**J**	0.50	0.020	mg/L		01/24/20 15:15	01/28/20 04:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:12	01/29/20 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:33	1
Thallium	**0.0029**		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00037**		0.00020	0.00020	mg/L		01/28/20 10:50	01/29/20 11:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.019	0.0063	mg/Kg	☼	01/28/20 14:30	01/29/20 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.26	mg/Kg	☼	01/28/20 13:05	01/28/20 16:19	1
pH	**8.9**		0.2	0.2	SU			01/22/20 20:55	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-7

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-7

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-7

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory		Project Name: AE7-32A	COC No.: 1 of 1
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab:	Test America - Chicago	Project No.: PTB/WO:184-006/32A	Lab Job No.: 500-176393
	Address:	2417 Bond Street University Park, IL 60484	TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other	Sample Temp:
	Phone:	708-534-5200		
	Contact:	Dick Wright	Chad Nelson	
	email:	richard.wright@testamericainc.com	Sampler:	

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.

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

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				Comments
15	2900V-36-B01	1/15	1245	S	X	X					X	X	X	X	X					
16	2900V-36-B02	1/15	1230	↓	↓	↓					↓	↓	↓	↓	↓					
17	2900V-36-B03	1/15	1220	↓	↓	↓					↓	↓	↓	↓	↓					

Relinquished by:	Date/Time	Received by:	Date/Time
[signature]	1/15 1430	[signature]	1/15/20 1430
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
1900 block of East Glenwood Dyer Road (southeast quadrant of Glenwood Dyer Road and Haven Estates Lane)

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52757 (Decimal Degrees) Longitude: -87.56844 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 898

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52757 Longitude: - 87.56844

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 2900V-37-B01 WAS SAMPLED ADJACENT TO SITE 2900V-37. SEE TABLE 3s AND FIGURE 4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176393-8.

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 20, 2020
Date:

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

LICENSED PROFESSIONAL GEOLOGIST
SAVO RADULOVIC
196-001303
ILLINOIS

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-37
Agricultural Land

Sample ID	2900V-37-B01	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-6					
Sample Date	1/15/2020	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0					
Sample pH	8.7					
Matrix	Soil					
No Contaminants of Concern Noted.						

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176393-8
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/30/2020 5:01:33 PM

Richard Wright, Senior Project Manager
(708)534-5200
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Client Sample ID: 2900V-37-B01 **Lab Sample ID: 500-176393-18**
Date Collected: 01/15/20 10:50 **Matrix: Solid**
Date Received: 01/15/20 14:30 **Percent Solids: 82.2**

Method: 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	☼	01/16/20 17:30	01/27/20 11:57	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
2-Butanone (MEK)	<0.0041	*	0.0041	0.0018	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Acetone	**0.0096**	**J**	0.016	0.0072	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Bromoform	<0.0016	*	0.0016	0.00048	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Carbon tetrachloride	<0.0016		0.0016	0.00048	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Chlorobenzene	<0.0016		0.0016	0.00061	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00050	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Dibromochloromethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Ethylbenzene	<0.0016		0.0016	0.00079	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Styrene	<0.0016		0.0016	0.00050	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00073	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Vinyl chloride	<0.0016		0.0016	0.00073	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	01/16/20 17:30	01/27/20 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*01/16/20 17:30*	*01/27/20 11:57*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*01/16/20 17:30*	*01/27/20 11:57*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*01/16/20 17:30*	*01/27/20 11:57*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*01/16/20 17:30*	*01/27/20 11:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1

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Client Sample ID: 2900V-37-B01
Date Collected: 01/15/20 10:50
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-18
Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
2-Chlorophenol	<0.19	*	0.19	0.065	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
2-Nitroaniline	<0.19	*	0.19	0.051	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
3,3'-Dichlorobenzidine	<0.19	*	0.19	0.053	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
3-Nitroaniline	<0.38	*	0.38	0.12	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
4-Nitrophenol	<0.77	*	0.77	0.36	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Carbazole	<0.19	*	0.19	0.095	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1

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Client Sample ID: 2900V-37-B01
Date Collected: 01/15/20 10:50
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-18
Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Isophorone	<0.19	*	0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Nitrobenzene	<0.038	*	0.038	0.0095	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	01/25/20 07:12	01/29/20 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*55*		*31 - 143*	*01/25/20 07:12*	*01/29/20 11:56*	*1*
2-Fluorobiphenyl	*75*		*43 - 145*	*01/25/20 07:12*	*01/29/20 11:56*	*1*
2-Fluorophenol	*94*		*31 - 166*	*01/25/20 07:12*	*01/29/20 11:56*	*1*
Nitrobenzene-d5	*67*		*37 - 147*	*01/25/20 07:12*	*01/29/20 11:56*	*1*
Phenol-d5	*93*		*30 - 153*	*01/25/20 07:12*	*01/29/20 11:56*	*1*
Terphenyl-d14	*106*		*42 - 157*	*01/25/20 07:12*	*01/29/20 11:56*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Arsenic	**7.8**		0.56	0.19	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Barium	**39**		0.56	0.064	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Beryllium	**0.81**		0.22	0.052	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Boron	**13**		2.8	0.26	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Cadmium	**0.59**		0.11	0.020	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Calcium	**48000**	**B**	110	19	mg/Kg	☼	01/22/20 06:55	01/23/20 21:01	10
Chromium	**17**		0.56	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Cobalt	**17**		0.28	0.073	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Copper	**24**		0.56	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Iron	**20000**		11	5.8	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Lead	**10**		0.28	0.13	mg/Kg	☼	01/22/20 06:55	01/23/20 10:40	1
Magnesium	**21000**		5.6	2.8	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Manganese	**450**		0.56	0.081	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Nickel	**36**		0.56	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Potassium	**2800**		28	9.9	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Silver	**0.24**	**J**	0.28	0.072	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Sodium	**1200**		56	8.3	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Thallium	**0.34**	**J**	0.56	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Vanadium	**19**		0.28	0.066	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1
Zinc	**94**		1.1	0.49	mg/Kg	☼	01/22/20 06:55	01/22/20 20:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:12	01/29/20 11:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 15:07	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:07	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 15:07	1

Client Sample ID: 2900V-37-B01

Date Collected: 01/15/20 10:50
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-18

Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 15:07	1
Manganese	**0.74**		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:07	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:07	1

Method: 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		01/24/20 15:15	01/28/20 04:41	1
Barium	**0.31**	**J**	0.50	0.050	mg/L		01/24/20 15:15	01/28/20 04:41	1
Beryllium	**0.0063**		0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 04:41	1
Boron	**0.17**		0.10	0.050	mg/L		01/24/20 15:15	01/28/20 04:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 04:41	1
Calcium	**19**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:41	1
Chromium	**0.11**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:41	1
Cobalt	**0.053**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:41	1
Iron	**140**		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 04:41	1
Lead	**0.099**		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 04:41	1
Manganese	**0.54**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:41	1
Nickel	**0.18**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:41	1
Potassium	**26**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:41	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/20 15:15	01/28/20 04:41	1
Silver	<0.025		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:41	1
Zinc	**0.62**		0.50	0.020	mg/L		01/24/20 15:15	01/28/20 04:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:12	01/29/20 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:35	1
Thallium	**0.0054**		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00025**		0.00020	0.00020	mg/L		01/28/20 10:50	01/29/20 11:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.020	0.0066	mg/Kg	☼	01/28/20 14:30	01/29/20 08:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.24	mg/Kg	☼	01/28/20 13:05	01/28/20 16:20	1
pH	**8.7**		0.2	0.2	SU			01/22/20 21:02	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-8

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc. Job ID: 500-176393-8
Project/Site: IDOT - AE7-032

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-8

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-8

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-8

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: AE7-032A Project No.: PTB/WO.184-006/32A TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other Sampler: Chad Nelson

COC No.: 1 of 1

Lab Job No.: 500-176393

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.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
18	2900V-37-1301	1/15	1050	S	X	X					X	X	X	X	X					

Relinquished by: Mutan	Date/Time 1/15 1430	Received by:	Date/Time 1/15/20 1430
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
2000 block of East Glenwood Dyer Road (northeast quadrant of Glenwood Dyer Road and Haven Estates Lane)

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52759 (Decimal Degrees) Longitude: -87.56787 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 275

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52759 Longitude: - 87.56787

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 2900V-38-B01 AND 2900V-38-B02 WERE SAMPLED ADJACENT TO SITE 2900V-38. SEE TABLE 3t AND FIGURE 4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176393-9.

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 20, 2020
Date:

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-38
Vacant Land

Sample ID	2900V-38-B01	2900V-38-B02	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-3	0-8					
Sample Date	1/15/2020	1/15/2020	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0	0					
Sample pH	8.5	8.3					
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
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Laboratory Job ID: 500-176393-9
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/30/2020 5:01:58 PM

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Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-9

Client Sample ID: 2900V-38-B01
Date Collected: 01/15/20 12:10
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-19
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
2-Butanone (MEK)	<0.0039	*	0.0039	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Bromoform	<0.0016	*	0.0016	0.00046	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Carbon disulfide	<0.0039		0.0039	0.00082	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	01/16/20 17:30	01/27/20 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*01/16/20 17:30*	*01/27/20 12:23*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*01/16/20 17:30*	*01/27/20 12:23*	*1*
Dibromofluoromethane	*92*		*75 - 126*	*01/16/20 17:30*	*01/27/20 12:23*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*01/16/20 17:30*	*01/27/20 12:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1

Client Sample ID: 2900V-38-B01
Date Collected: 01/15/20 12:10
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Lab Sample ID: 500-176393-19
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
2-Chlorophenol	<0.19	*	0.19	0.063	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
2-Nitroaniline	<0.19	*	0.19	0.050	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
3,3'-Dichlorobenzidine	<0.19	*	0.19	0.052	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
3-Nitroaniline	<0.37	*	0.37	0.12	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
4-Nitrophenol	<0.75	*	0.75	0.35	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Carbazole	<0.19	*	0.19	0.093	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1

Client Sample ID: 2900V-38-B01

Date Collected: 01/15/20 12:10
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Lab Sample ID: 500-176393-19

Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Isophorone	<0.19	*	0.19	0.042	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Nitrobenzene	<0.037	*	0.037	0.0093	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.044	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	01/25/20 07:12	01/29/20 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*51*		*31 - 143*	*01/25/20 07:12*	*01/29/20 12:20*	*1*
2-Fluorobiphenyl	*78*		*43 - 145*	*01/25/20 07:12*	*01/29/20 12:20*	*1*
2-Fluorophenol	*85*		*31 - 166*	*01/25/20 07:12*	*01/29/20 12:20*	*1*
Nitrobenzene-d5	*70*		*37 - 147*	*01/25/20 07:12*	*01/29/20 12:20*	*1*
Phenol-d5	*87*		*30 - 153*	*01/25/20 07:12*	*01/29/20 12:20*	*1*
Terphenyl-d14	*112*		*42 - 157*	*01/25/20 07:12*	*01/29/20 12:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Arsenic	**5.6**		0.56	0.19	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Barium	**64**		0.56	0.064	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Beryllium	**0.86**		0.22	0.052	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Boron	**14**		2.8	0.26	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Cadmium	**0.12**		0.11	0.020	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Calcium	**70000**	**B**	110	19	mg/Kg	☼	01/22/20 06:55	01/23/20 21:17	10
Chromium	**18**		0.56	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Cobalt	**11**		0.28	0.073	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Copper	**16**		0.56	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Iron	**18000**		11	5.8	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Lead	**6.2**		0.28	0.13	mg/Kg	☼	01/22/20 06:55	01/23/20 10:44	1
Magnesium	**21000**		5.6	2.8	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Manganese	**280**		0.56	0.081	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Nickel	**26**		0.56	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Potassium	**2700**		28	9.9	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Silver	**0.22**	**J**	0.28	0.072	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Sodium	**1200**		56	8.3	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Vanadium	**22**		0.28	0.066	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1
Zinc	**46**		1.1	0.49	mg/Kg	☼	01/22/20 06:55	01/22/20 20:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:12	01/29/20 12:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 15:54	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:54	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 15:54	1

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Lab Sample ID: 500-176393-19

Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 15:54	1
Manganese	**0.65**		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:54	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.057**		0.050	0.010	mg/L		01/24/20 15:15	01/28/20 04:53	1
Barium	**0.56**		0.50	0.050	mg/L		01/24/20 15:15	01/28/20 04:53	1
Beryllium	**0.0081**		0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 04:53	1
Boron	**0.22**		0.10	0.050	mg/L		01/24/20 15:15	01/28/20 04:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 04:53	1
Calcium	**63**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:53	1
Chromium	**0.17**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:53	1
Cobalt	**0.035**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:53	1
Iron	**150**		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 04:53	1
Lead	**0.075**		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 04:53	1
Manganese	**0.57**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:53	1
Nickel	**0.16**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:53	1
Potassium	**33**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:53	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/20 15:15	01/28/20 04:53	1
Silver	**0.011**	**J**	0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:53	1
Zinc	**0.33**	**J**	0.50	0.020	mg/L		01/24/20 15:15	01/28/20 04:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:12	01/29/20 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:37	1
Thallium	**0.0021**		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00029**		0.00020	0.00020	mg/L		01/28/20 10:50	01/29/20 11:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.019	0.0062	mg/Kg	☼	01/28/20 14:30	01/29/20 08:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.26	mg/Kg	☼	01/28/20 13:05	01/28/20 16:20	1
pH	**8.5**		0.2	0.2	SU			01/22/20 21:06	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-9

Client Sample ID: 2900V-38-B02
Date Collected: 01/15/20 12:00
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-20
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
2-Butanone (MEK)	**0.0047**	*	0.0044	0.0019	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Acetone	**0.018**		0.017	0.0076	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Bromoform	<0.0017	*	0.0017	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*01/16/20 17:30*	*01/27/20 12:48*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*01/16/20 17:30*	*01/27/20 12:48*	*1*
Dibromofluoromethane	*92*		*75 - 126*	*01/16/20 17:30*	*01/27/20 12:48*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*01/16/20 17:30*	*01/27/20 12:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-9

Client Sample ID: 2900V-38-B02
Date Collected: 01/15/20 12:00
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-20
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
2-Chlorophenol	<0.19	*	0.19	0.065	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
2-Methylnaphthalene	<0.077		0.077	0.0071	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
2-Nitroaniline	<0.19	*	0.19	0.052	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
3,3'-Dichlorobenzidine	<0.19	*	0.19	0.054	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
3-Nitroaniline	<0.38	*	0.38	0.12	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
4-Nitrophenol	<0.77	*	0.77	0.36	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Benzo[a]anthracene	**0.0068**	**J**	0.038	0.0052	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Benzo[b]fluoranthene	**0.013**	**J**	0.038	0.0083	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Carbazole	<0.19	*	0.19	0.096	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Fluoranthene	**0.010**	**J**	0.038	0.0071	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1

Client Sample ID: 2900V-38-B02

Date Collected: 01/15/20 12:00
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-20

Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Isophorone	<0.19	*	0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Nitrobenzene	<0.038	*	0.038	0.0096	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Phenanthrene	**0.0060**	**J**	0.038	0.0053	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1
Pyrene	**0.0098**	**J**	0.038	0.0076	mg/Kg	☼	01/25/20 07:12	01/29/20 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*62*		*31 - 143*	*01/25/20 07:12*	*01/29/20 12:45*	*1*
2-Fluorobiphenyl	*72*		*43 - 145*	*01/25/20 07:12*	*01/29/20 12:45*	*1*
2-Fluorophenol	*80*		*31 - 166*	*01/25/20 07:12*	*01/29/20 12:45*	*1*
Nitrobenzene-d5	*66*		*37 - 147*	*01/25/20 07:12*	*01/29/20 12:45*	*1*
Phenol-d5	*81*		*30 - 153*	*01/25/20 07:12*	*01/29/20 12:45*	*1*
Terphenyl-d14	*114*		*42 - 157*	*01/25/20 07:12*	*01/29/20 12:45*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Arsenic	**6.3**		0.60	0.20	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Barium	**54**		0.60	0.068	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Beryllium	**0.90**		0.24	0.056	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Boron	**8.6**		3.0	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Cadmium	**0.079**	**J**	0.12	0.022	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Calcium	**4400**	**B**	12	2.0	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Chromium	**20**		0.60	0.30	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Cobalt	**13**		0.30	0.078	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Copper	**19**		0.60	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Iron	**21000**		12	6.2	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Lead	**21**		0.30	0.14	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Magnesium	**5500**		6.0	3.0	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Manganese	**280**		0.60	0.087	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Nickel	**28**		0.60	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Potassium	**2200**		30	11	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Selenium	**0.52**	**J**	0.60	0.35	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Silver	**0.22**	**J**	0.30	0.077	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Sodium	**1700**		60	8.9	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Vanadium	**25**		0.30	0.071	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1
Zinc	**59**		1.2	0.53	mg/Kg	☼	01/22/20 06:55	01/22/20 20:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:12	01/29/20 11:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 15:24	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:24	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 15:24	1

Client Sample ID: 2900V-38-B02

Date Collected: 01/15/20 12:00
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-20

Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 15:24	1
Manganese	**5.2**		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:24	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.075**		0.050	0.010	mg/L		01/24/20 15:15	01/28/20 04:57	1
Barium	**0.54**		0.50	0.050	mg/L		01/24/20 15:15	01/28/20 04:57	1
Beryllium	**0.0079**		0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 04:57	1
Boron	**0.17**		0.10	0.050	mg/L		01/24/20 15:15	01/28/20 04:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 04:57	1
Calcium	**34**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:57	1
Chromium	**0.16**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:57	1
Cobalt	**0.067**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:57	1
Iron	**170**		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 04:57	1
Lead	**0.14**		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 04:57	1
Manganese	**1.6**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:57	1
Nickel	**0.19**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:57	1
Potassium	**22**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 04:57	1
Selenium	<0.050		0.050	0.020	mg/L		01/24/20 15:15	01/28/20 04:57	1
Silver	**0.015**	**J**	0.025	0.010	mg/L		01/24/20 15:15	01/28/20 04:57	1
Zinc	**0.42**	**J**	0.50	0.020	mg/L		01/24/20 15:15	01/28/20 04:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:12	01/29/20 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:44	1
Thallium	**0.0022**		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00055**		0.00020	0.00020	mg/L		01/28/20 10:50	01/29/20 11:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.019	0.0064	mg/Kg	☼	01/28/20 14:30	01/29/20 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.29	mg/Kg	☼	01/28/20 13:05	01/28/20 16:21	1
pH	**8.3**		0.2	0.2	SU			01/22/20 21:10	1

Definitions/Glossary

Client: Andrews Engineering Inc. Job ID: 500-176393-9
Project/Site: IDOT - AE7-032

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc. Job ID: 500-176393-9
Project/Site: IDOT - AE7-032

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-9

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-9

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project Name: AE7-32A	COC No.: 1 of 1
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project No.: PTB/WO: 184-006/32A TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ___ Other Chad Nelson **Sampler:**	Lab Job No.: 500-176393 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.

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
19	2900V-38-1301	1/15	1210	S	X	X					X	X	X	X	X					
20	2900V-38-1302	1/15	1200	↓	↓	↓					↓	↓	↓	↓	↓					

Relinquished by:	Date/Time	Received by:	Date/Time
[signature]	1/15 1430	[signature]	1/15/20 1430
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
2000 block of East Glenwood Dyer Road (southeast quadrant of Glenwood Dyer Road and Haven Estates Lane)

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52735 (Decimal Degrees) Longitude: -87.56789 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 1,146

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52735 Longitude: - 87.56789

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 2900V-39-B01 AND 2900V-39-B02 WERE SAMPLED ADJACENT TO SITE 2900V-39. SEE TABLE 3u AND FIGURE 4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176393-10.

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 20, 2020
Date:

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

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-39
Electrical Substation

Sample ID	2900V-39-B01	2900V-39-B02	2900V-39-B02 DUP	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-6	0-6	0-6					
Sample Date	1/15/2020	1/15/2020	1/15/2020					
PID	0	0	0					
Sample pH	8.9	8.1	7.8	[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
Matrix	Soil	Soil	Soil					
No Contaminants of Concern Noted.								

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176393-10
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/30/2020 4:58:38 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-10

Client Sample ID: 2900V-39-B01
Date Collected: 01/15/20 11:00
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-21
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
2-Butanone (MEK)	<0.0042	*	0.0042	0.0019	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Acetone	**0.069**		0.017	0.0073	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Bromoform	<0.0017	*	0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	01/16/20 17:30	01/27/20 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*01/16/20 17:30*	*01/27/20 13:13*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*01/16/20 17:30*	*01/27/20 13:13*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*01/16/20 17:30*	*01/27/20 13:13*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*01/16/20 17:30*	*01/27/20 13:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1

Client Sample ID: 2900V-39-B01
Date Collected: 01/15/20 11:00
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-21
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
2-Chlorophenol	<0.19	*	0.19	0.065	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
2-Nitroaniline	<0.19	*	0.19	0.051	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
3,3'-Dichlorobenzidine	<0.19	*	0.19	0.053	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
3-Nitroaniline	<0.38	*	0.38	0.12	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
4-Nitrophenol	<0.77	*	0.77	0.36	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Carbazole	<0.19	*	0.19	0.095	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-10

Client Sample ID: 2900V-39-B01
Date Collected: 01/15/20 11:00
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-21
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Isophorone	<0.19	*	0.19	0.043	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Nitrobenzene	<0.038	*	0.038	0.0095	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.045	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	01/25/20 07:12	01/29/20 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*47*		*31 - 143*	*01/25/20 07:12*	*01/29/20 13:09*	*1*
2-Fluorobiphenyl	*82*		*43 - 145*	*01/25/20 07:12*	*01/29/20 13:09*	*1*
2-Fluorophenol	*90*		*31 - 166*	*01/25/20 07:12*	*01/29/20 13:09*	*1*
Nitrobenzene-d5	*74*		*37 - 147*	*01/25/20 07:12*	*01/29/20 13:09*	*1*
Phenol-d5	*92*		*30 - 153*	*01/25/20 07:12*	*01/29/20 13:09*	*1*
Terphenyl-d14	*115*		*42 - 157*	*01/25/20 07:12*	*01/29/20 13:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Arsenic	**8.9**		0.59	0.20	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Barium	**30**		0.59	0.067	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Beryllium	**0.76**		0.23	0.055	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Boron	**13**		2.9	0.27	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Cadmium	**0.10**	**J**	0.12	0.021	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Calcium	**59000**	**B**	120	20	mg/Kg	☼	01/22/20 06:55	01/23/20 21:21	10
Chromium	**15**		0.59	0.29	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Cobalt	**9.9**		0.29	0.077	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Copper	**25**		0.59	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Iron	**19000**		12	6.1	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Lead	**8.7**		0.29	0.14	mg/Kg	☼	01/22/20 06:55	01/23/20 10:48	1
Magnesium	**24000**		5.9	2.9	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Manganese	**280**		0.59	0.085	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Nickel	**28**		0.59	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Potassium	**2500**		29	10	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Selenium	<0.59		0.59	0.34	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Silver	**0.18**	**J**	0.29	0.076	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Sodium	**410**		59	8.7	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Vanadium	**19**		0.29	0.069	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1
Zinc	**65**		1.2	0.51	mg/Kg	☼	01/22/20 06:55	01/22/20 20:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:12	01/29/20 12:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:12	01/28/20 15:58	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:58	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:12	01/28/20 15:58	1

Client Sample ID: 2900V-39-B01
Date Collected: 01/15/20 11:00
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-21
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:12	01/28/20 15:58	1
Manganese	**1.5**		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:58	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:12	01/28/20 15:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.077**	**F1**	0.050	0.010	mg/L		01/24/20 15:15	01/28/20 05:01	1
Barium	**0.49**	**J F1**	0.50	0.050	mg/L		01/24/20 15:15	01/28/20 05:01	1
Beryllium	**0.0083**	**F1**	0.0040	0.0040	mg/L		01/24/20 15:15	01/28/20 05:01	1
Boron	**0.20**	**F1**	0.10	0.050	mg/L		01/24/20 15:15	01/28/20 05:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/24/20 15:15	01/28/20 05:01	1
Calcium	**81**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 05:01	1
Chromium	**0.16**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 05:01	1
Cobalt	**0.052**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 05:01	1
Iron	**170**		0.40	0.20	mg/L		01/24/20 15:15	01/28/20 05:01	1
Lead	**0.10**		0.0075	0.0075	mg/L		01/24/20 15:15	01/28/20 05:01	1
Manganese	**0.83**	**F1**	0.025	0.010	mg/L		01/24/20 15:15	01/28/20 05:01	1
Nickel	**0.22**		0.025	0.010	mg/L		01/24/20 15:15	01/28/20 05:01	1
Potassium	**34**		2.5	0.50	mg/L		01/24/20 15:15	01/28/20 05:01	1
Selenium	<0.050	F1	0.050	0.020	mg/L		01/24/20 15:15	01/28/20 05:01	1
Silver	**0.012**	**J F1**	0.025	0.010	mg/L		01/24/20 15:15	01/28/20 05:01	1
Zinc	**0.47**	**J F1**	0.50	0.020	mg/L		01/24/20 15:15	01/28/20 05:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:12	01/29/20 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		01/24/20 15:15	01/27/20 17:46	1
Thallium	**0.0029**		0.0020	0.0020	mg/L		01/24/20 15:15	01/27/20 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00031**		0.00020	0.00020	mg/L		01/28/20 10:50	01/29/20 11:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.018	0.0061	mg/Kg	☼	01/28/20 14:30	01/29/20 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.28	mg/Kg	☼	01/28/20 13:05	01/28/20 16:21	1
pH	**8.9**		0.2	0.2	SU			01/22/20 21:14	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-10

Client Sample ID: 2900V-39-B02
Date Collected: 01/15/20 11:10
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-22
Matrix: Solid
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
2-Butanone (MEK)	**0.0031**	**J ***	0.0042	0.0019	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Acetone	**0.018**		0.017	0.0073	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Bromoform	<0.0017	*	0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1
Xylenes, Total	<0.0033		0.0033	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*01/16/20 17:30*	*01/27/20 13:39*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*01/16/20 17:30*	*01/27/20 13:39*	*1*
Dibromofluoromethane	*87*		*75 - 126*	*01/16/20 17:30*	*01/27/20 13:39*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*01/16/20 17:30*	*01/27/20 13:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
2,2'-oxybis[1-chloropropane]	<0.20	F1	0.20	0.047	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1

Client Sample ID: 2900V-39-B02
Date Collected: 01/15/20 11:10
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-22
Matrix: Solid
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
2,4-Dinitrophenol	<0.82	F2	0.82	0.71	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
2-Methylnaphthalene	<0.082	F1	0.082	0.0074	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
2-Nitroaniline	<0.20	*	0.20	0.054	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
3,3'-Dichlorobenzidine	<0.20	*	0.20	0.057	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
4,6-Dinitro-2-methylphenol	<0.82	F1	0.82	0.33	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
4-Nitrophenol	<0.82	*	0.82	0.39	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Anthracene	<0.040	F1	0.040	0.0068	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Bis(2-chloroethoxy)methane	<0.20	F1	0.20	0.041	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Bis(2-chloroethyl)ether	<0.20	F1	0.20	0.061	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Carbazole	<0.20	*	0.20	0.10	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Hexachlorocyclopentadiene	<0.82	F1	0.82	0.23	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-10

Client Sample ID: 2900V-39-B02
Date Collected: 01/15/20 11:10
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-22
Matrix: Solid
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Isophorone	<0.20	F1 *	0.20	0.045	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Nitrobenzene	<0.040	*	0.040	0.010	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
N-Nitrosodiphenylamine	<0.20	F1	0.20	0.048	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	01/24/20 18:56	01/28/20 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*31 - 143*	*01/24/20 18:56*	*01/28/20 18:24*	*1*
2-Fluorobiphenyl	*96*		*43 - 145*	*01/24/20 18:56*	*01/28/20 18:24*	*1*
2-Fluorophenol	*118*		*31 - 166*	*01/24/20 18:56*	*01/28/20 18:24*	*1*
Nitrobenzene-d5	*99*		*37 - 147*	*01/24/20 18:56*	*01/28/20 18:24*	*1*
Phenol-d5	*112*		*30 - 153*	*01/24/20 18:56*	*01/28/20 18:24*	*1*
Terphenyl-d14	*125*		*42 - 157*	*01/24/20 18:56*	*01/28/20 18:24*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.33**	**J**	1.2	0.24	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Arsenic	**6.0**		0.62	0.21	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Barium	**72**		0.62	0.071	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Beryllium	**0.81**		0.25	0.058	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Boron	**7.1**		3.1	0.29	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Cadmium	**0.097**	**J**	0.12	0.022	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Calcium	**1700**		12	2.1	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Chromium	**18**		0.62	0.31	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Cobalt	**11**		0.31	0.082	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Copper	**16**		0.62	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Iron	**16000**		12	6.5	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Lead	**16**		0.31	0.14	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Magnesium	**2700**		6.2	3.1	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Manganese	**210**		0.62	0.090	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Nickel	**20**		0.62	0.18	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Potassium	**1900**		31	11	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Selenium	<0.62		0.62	0.37	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Silver	**3.7**		0.31	0.080	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Sodium	**1500**		62	9.2	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Vanadium	**28**		0.31	0.073	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1
Zinc	**54**		1.2	0.55	mg/Kg	☼	01/22/20 06:55	01/22/20 22:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/20 15:23	01/27/20 20:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/20 15:23	01/29/20 14:24	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/20 15:23	01/27/20 20:03	1
Iron	<0.40		0.40	0.20	mg/L		01/24/20 15:23	01/27/20 20:03	1

Client Sample ID: 2900V-39-B02 **Lab Sample ID: 500-176393-22**
Date Collected: 01/15/20 11:10 **Matrix: Solid**
Date Received: 01/15/20 14:30 **Percent Solids: 79.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0099		0.0075	0.0075	mg/L		01/24/20 15:23	01/27/20 20:03	1
Manganese	2.9		0.025	0.010	mg/L		01/24/20 15:23	01/29/20 14:24	1
Nickel	0.013	J	0.025	0.010	mg/L		01/24/20 15:23	01/27/20 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.072		0.050	0.010	mg/L		01/28/20 07:41	01/28/20 13:08	1
Barium	0.84		0.50	0.050	mg/L		01/28/20 07:41	01/28/20 13:08	1
Beryllium	0.0098		0.0040	0.0040	mg/L		01/28/20 07:41	01/28/20 13:08	1
Boron	0.13		0.10	0.050	mg/L		01/28/20 07:41	01/28/20 13:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/28/20 07:41	01/28/20 13:08	1
Calcium	21		2.5	0.50	mg/L		01/28/20 07:41	01/28/20 13:08	1
Chromium	0.20		0.025	0.010	mg/L		01/28/20 07:41	01/28/20 13:08	1
Cobalt	0.089		0.025	0.010	mg/L		01/28/20 07:41	01/28/20 13:08	1
Iron	200		0.40	0.20	mg/L		01/28/20 07:41	01/28/20 13:08	1
Lead	0.16		0.0075	0.0075	mg/L		01/28/20 07:41	01/28/20 13:08	1
Manganese	1.9		0.025	0.010	mg/L		01/28/20 07:41	01/28/20 13:08	1
Nickel	0.21		0.025	0.010	mg/L		01/28/20 07:41	01/28/20 13:08	1
Potassium	23		2.5	0.50	mg/L		01/28/20 07:41	01/28/20 13:08	1
Selenium	<0.050		0.050	0.020	mg/L		01/28/20 07:41	01/28/20 13:08	1
Silver	0.021	J	0.025	0.010	mg/L		01/28/20 07:41	01/28/20 13:08	1
Zinc	0.63		0.50	0.020	mg/L		01/28/20 07:41	01/28/20 13:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/20 15:23	01/29/20 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/28/20 07:41	01/29/20 00:00	1
Thallium	0.0026		0.0020	0.0020	mg/L		01/28/20 07:41	01/29/20 00:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00071		0.00050	0.00050	mg/L		01/28/20 10:50	01/29/20 10:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0061	mg/Kg	☼	01/28/20 14:30	01/29/20 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.29	mg/Kg	☼	01/29/20 10:05	01/29/20 14:50	1
pH	8.1		0.2	0.2	SU			01/22/20 21:18	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-10

Client Sample ID: 2900V-39-B02 Dup
Date Collected: 01/15/20 11:15
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-23
Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
2-Butanone (MEK)	**0.0022**	**J ***	0.0042	0.0019	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Acetone	**0.024**		0.017	0.0073	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Bromoform	<0.0017	*	0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	01/16/20 17:30	01/27/20 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*01/16/20 17:30*	*01/27/20 14:04*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*01/16/20 17:30*	*01/27/20 14:04*	*1*
Dibromofluoromethane	*92*		*75 - 126*	*01/16/20 17:30*	*01/27/20 14:04*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*01/16/20 17:30*	*01/27/20 14:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1

Client Sample ID: 2900V-39-B02 Dup
Date Collected: 01/15/20 11:15
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-23
Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
2-Nitroaniline	<0.21	*	0.21	0.055	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
3,3'-Dichlorobenzidine	<0.21	*	0.21	0.058	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
4-Nitrophenol	<0.83	*	0.83	0.39	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Carbazole	<0.21	*	0.21	0.10	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-10

Client Sample ID: 2900V-39-B02 Dup

Date Collected: 01/15/20 11:15
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-23

Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Isophorone	<0.21	*	0.21	0.046	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Nitrobenzene	<0.041	*	0.041	0.010	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	01/24/20 18:56	01/28/20 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*		*31 - 143*	*01/24/20 18:56*	*01/28/20 18:49*	*1*
2-Fluorobiphenyl	*80*		*43 - 145*	*01/24/20 18:56*	*01/28/20 18:49*	*1*
2-Fluorophenol	*104*		*31 - 166*	*01/24/20 18:56*	*01/28/20 18:49*	*1*
Nitrobenzene-d5	*86*		*37 - 147*	*01/24/20 18:56*	*01/28/20 18:49*	*1*
Phenol-d5	*101*		*30 - 153*	*01/24/20 18:56*	*01/28/20 18:49*	*1*
Terphenyl-d14	*122*		*42 - 157*	*01/24/20 18:56*	*01/28/20 18:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.33**	**J**	1.2	0.23	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Arsenic	**4.4**		0.60	0.20	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Barium	**70**		0.60	0.068	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Beryllium	**0.77**		0.24	0.056	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Boron	**5.6**		3.0	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Cadmium	**0.12**		0.12	0.021	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Calcium	**1600**		12	2.0	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Chromium	**19**		0.60	0.30	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Cobalt	**10**		0.30	0.078	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Copper	**13**		0.60	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Iron	**17000**		12	6.2	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Lead	**15**		0.30	0.14	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Magnesium	**2900**		6.0	3.0	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Manganese	**200**		0.60	0.087	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Nickel	**23**		0.60	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Potassium	**1700**		30	11	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Silver	**3.8**		0.30	0.077	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Sodium	**1500**		60	8.8	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Vanadium	**26**		0.30	0.070	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1
Zinc	**58**		1.2	0.52	mg/Kg	☼	01/22/20 06:55	01/22/20 22:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/24/20 15:23	01/27/20 20:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/24/20 15:23	01/29/20 14:29	1
Chromium	<0.025		0.025	0.010	mg/L		01/24/20 15:23	01/27/20 20:07	1
Iron	<0.40		0.40	0.20	mg/L		01/24/20 15:23	01/27/20 20:07	1

Client Sample ID: 2900V-39-B02 Dup

Date Collected: 01/15/20 11:15
Date Received: 01/15/20 14:30

Lab Sample ID: 500-176393-23

Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0079		0.0075	0.0075	mg/L		01/24/20 15:23	01/27/20 20:07	1
Manganese	7.0		0.025	0.010	mg/L		01/24/20 15:23	01/29/20 14:29	1
Nickel	0.021	J	0.025	0.010	mg/L		01/24/20 15:23	01/27/20 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.077		0.050	0.010	mg/L		01/28/20 07:41	01/28/20 13:12	1
Barium	0.99		0.50	0.050	mg/L		01/28/20 07:41	01/28/20 13:12	1
Beryllium	0.011		0.0040	0.0040	mg/L		01/28/20 07:41	01/28/20 13:12	1
Boron	0.13		0.10	0.050	mg/L		01/28/20 07:41	01/28/20 13:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/28/20 07:41	01/28/20 13:12	1
Calcium	25		2.5	0.50	mg/L		01/28/20 07:41	01/28/20 13:12	1
Chromium	0.23		0.025	0.010	mg/L		01/28/20 07:41	01/28/20 13:12	1
Cobalt	0.11		0.025	0.010	mg/L		01/28/20 07:41	01/28/20 13:12	1
Iron	230		0.40	0.20	mg/L		01/28/20 07:41	01/28/20 13:12	1
Lead	0.17		0.0075	0.0075	mg/L		01/28/20 07:41	01/28/20 13:12	1
Manganese	1.9		0.025	0.010	mg/L		01/28/20 07:41	01/28/20 13:12	1
Nickel	0.25		0.025	0.010	mg/L		01/28/20 07:41	01/28/20 13:12	1
Potassium	25		2.5	0.50	mg/L		01/28/20 07:41	01/28/20 13:12	1
Selenium	<0.050		0.050	0.020	mg/L		01/28/20 07:41	01/28/20 13:12	1
Silver	0.023	J	0.025	0.010	mg/L		01/28/20 07:41	01/28/20 13:12	1
Zinc	0.83		0.50	0.020	mg/L		01/28/20 07:41	01/28/20 13:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/24/20 15:23	01/29/20 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/28/20 07:41	01/29/20 00:02	1
Thallium	0.0026		0.0020	0.0020	mg/L		01/28/20 07:41	01/29/20 00:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00076		0.00050	0.00050	mg/L		01/28/20 10:50	01/29/20 10:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.019	0.0064	mg/Kg	☼	01/28/20 14:30	01/29/20 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.30	mg/Kg	☼	01/29/20 10:05	01/29/20 14:50	1
pH	7.8		0.2	0.2	SU			01/22/20 21:22	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-10

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance 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.
X	Surrogate is outside control limits

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 is outside acceptance 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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc. Job ID: 500-176393-10
Project/Site: IDOT - AE7-032

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-10

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176393-10

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc. Job ID: 500-176393-10
Project/Site: IDOT - AE7-032

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: AE7-32A Project No.: PTB/WO:184-006/32A TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ___ Other Sampler: Chad Nelson

COC No.: 1 of 1

Lab Job No.: 500-176393

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.

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
21	2900V-39-1301	1/15	1160	S	X	X					X	X	X	X	X					
22	2900V-39-1302	1/15	1110	↓	↓	↓					↓	↓	↓	↓	↓					
23	2900V-39-1302DUP	1/15	1115	↓	↓	↓					↓	↓	↓	↓	↓					

Relinquished by:	Date/Time 1/15 1430	Received by:	Date/Time 1/15/20 1430
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
2030 East Glenwood Dyer Road

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52731 (Decimal Degrees) Longitude: -87.56719 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 250

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52731 Longitude: - 87.56719

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 2900V-40-B01 WAS SAMPLED ADJACENT TO SITE 2900V-40. SEE TABLE 3v AND FIGURE 4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176324-1.

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 20, 2020
Date:

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

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-40
Lynwood Sports Center

Sample ID	2900V-40-B01-1	2900V-40-B01-2	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-5	5-10					
Sample Date	1/14/2020	1/14/2020					
PID	0	0					
Sample pH	6.7	7	[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
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176324-1
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/30/2020 4:14:26 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: 2900V-40-B01-1

Date Collected: 01/14/20 11:20
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-1

Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
2-Butanone (MEK)	<0.0042		0.0042	0.0018	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Acetone	<0.017		0.017	0.0072	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Carbon disulfide	<0.0042		0.0042	0.00086	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	01/15/20 16:50	01/23/20 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*01/15/20 16:50*	*01/23/20 16:17*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*	*01/15/20 16:50*	*01/23/20 16:17*	*1*
Dibromofluoromethane	*100*		*75 - 126*	*01/15/20 16:50*	*01/23/20 16:17*	*1*
Toluene-d8 (Surr)	*91*		*75 - 124*	*01/15/20 16:50*	*01/23/20 16:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19	F2	0.19	0.040	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
1,2-Dichlorobenzene	<0.19	F1	0.19	0.045	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
2,2'-oxybis[1-chloropropane]	<0.19	F2 F1	0.19	0.043	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1

Client Sample ID: 2900V-40-B01-1
Date Collected: 01/14/20 11:20
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-1
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37	F2	0.37	0.085	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
2,4-Dinitrophenol	<0.76	F2	0.76	0.66	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
2-Chlorophenol	<0.19	F1 *	0.19	0.064	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
2-Methylnaphthalene	<0.076	F2	0.076	0.0069	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
2-Methylphenol	<0.19	F2 F1	0.19	0.060	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
2-Nitroaniline	<0.19	*	0.19	0.050	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
3 & 4 Methylphenol	<0.19	F2 F1	0.19	0.062	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
3,3'-Dichlorobenzidine	<0.19	F2 *	0.19	0.052	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
3-Nitroaniline	<0.37	F1 F2	0.37	0.12	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
4,6-Dinitro-2-methylphenol	<0.76	F2	0.76	0.30	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
4-Bromophenyl phenyl ether	<0.19	F2	0.19	0.049	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
4-Chloroaniline	<0.76	F2 F1	0.76	0.18	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
4-Chlorophenyl phenyl ether	<0.19	F2	0.19	0.044	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Acenaphthene	<0.037	F2	0.037	0.0067	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Anthracene	<0.037	F2 F1	0.037	0.0063	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Benzo[a]pyrene	<0.037	F2	0.037	0.0072	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Benzo[b]fluoranthene	<0.037	F2	0.037	0.0081	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Benzo[g,h,i]perylene	**0.016**	**J**	0.037	0.012	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Benzo[k]fluoranthene	<0.037	F2	0.037	0.011	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Bis(2-chloroethoxy)methane	<0.19	F1 *	0.19	0.038	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Bis(2-chloroethyl)ether	<0.19	F2 F1	0.19	0.056	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Carbazole	<0.19	F1 F2 *	0.19	0.094	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Dibenzofuran	<0.19	F2	0.19	0.044	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Fluoranthene	**0.018**	**J**	0.037	0.0069	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1

Client Sample ID: 2900V-40-B01-1

Date Collected: 01/14/20 11:20
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-1

Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Isophorone	<0.19	F1 *	0.19	0.042	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Naphthalene	<0.037	F2 F1	0.037	0.0058	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Nitrobenzene	<0.037	F1 *	0.037	0.0093	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
N-Nitrosodi-n-propylamine	<0.076	F2 F1	0.076	0.046	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
N-Nitrosodiphenylamine	<0.19	F1 *	0.19	0.044	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Phenanthrene	**0.011**	**J**	0.037	0.0052	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Phenol	<0.19	F2 F1	0.19	0.083	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1
Pyrene	**0.031**	**J F2**	0.037	0.0074	mg/Kg	☼	01/23/20 21:50	01/24/20 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*69*		*31 - 143*	*01/23/20 21:50*	*01/24/20 13:27*	*1*
2-Fluorobiphenyl	*82*		*43 - 145*	*01/23/20 21:50*	*01/24/20 13:27*	*1*
2-Fluorophenol	*117*		*31 - 166*	*01/23/20 21:50*	*01/24/20 13:27*	*1*
Nitrobenzene-d5	*111*		*37 - 147*	*01/23/20 21:50*	*01/24/20 13:27*	*1*
Phenol-d5	*112*		*30 - 153*	*01/23/20 21:50*	*01/24/20 13:27*	*1*
Terphenyl-d14	*99*		*42 - 157*	*01/23/20 21:50*	*01/24/20 13:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.78**	**J F1**	1.2	0.23	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Arsenic	**6.5**		0.58	0.20	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Barium	**45**	**F1**	0.58	0.066	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Beryllium	**0.84**		0.23	0.054	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Boron	**17**		2.9	0.27	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Cadmium	**0.29**		0.12	0.021	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Calcium	**59000**	**B**	120	20	mg/Kg	☼	01/17/20 06:44	01/20/20 09:41	10
Chromium	**18**		0.58	0.29	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Cobalt	**18**		0.29	0.076	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Copper	**19**		0.58	0.16	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Iron	**18000**		12	6.0	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Lead	**24**		0.29	0.13	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Magnesium	**21000**		5.8	2.9	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Manganese	**410**		0.58	0.084	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Nickel	**38**	**F1**	0.58	0.17	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Potassium	**3200**		29	10	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Silver	**2.8**		0.29	0.075	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Sodium	**950**	**F1**	58	8.6	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Vanadium	**23**		0.29	0.069	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1
Zinc	**67**		1.2	0.51	mg/Kg	☼	01/17/20 06:44	01/17/20 17:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:15	01/27/20 16:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:15	01/27/20 16:26	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 16:26	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:15	01/27/20 16:26	1

Client Sample ID: 2900V-40-B01-1

Date Collected: 01/14/20 11:20
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-1

Matrix: Solid
Percent Solids: 84.6

Method: 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		01/25/20 16:15	01/27/20 16:26	1
Manganese	**3.1**		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 16:26	1
Nickel	**0.041**		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 16:26	1

Method: 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		01/23/20 15:55	01/24/20 15:34	1
Barium	**0.47**	**J**	0.50	0.050	mg/L		01/23/20 15:55	01/24/20 15:34	1
Beryllium	**0.0094**		0.0040	0.0040	mg/L		01/23/20 15:55	01/24/20 15:34	1
Boron	**0.24**		0.10	0.050	mg/L		01/23/20 15:55	01/24/20 15:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/23/20 15:55	01/24/20 15:34	1
Calcium	**61**		2.5	0.50	mg/L		01/23/20 15:55	01/24/20 15:34	1
Chromium	**0.17**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 15:34	1
Cobalt	**0.068**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 15:34	1
Iron	**200**		0.40	0.20	mg/L		01/23/20 15:55	01/24/20 15:34	1
Lead	**0.11**		0.0075	0.0075	mg/L		01/23/20 15:55	01/24/20 15:34	1
Manganese	**0.85**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 15:34	1
Nickel	**0.25**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 15:34	1
Potassium	**40**		2.5	0.50	mg/L		01/23/20 15:55	01/24/20 15:34	1
Selenium	<0.050		0.050	0.020	mg/L		01/23/20 15:55	01/24/20 15:34	1
Silver	**0.014**	**J**	0.025	0.010	mg/L		01/23/20 15:55	01/24/20 15:34	1
Zinc	**0.77**		0.50	0.020	mg/L		01/23/20 15:55	01/24/20 15:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:15	01/27/20 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/23/20 15:55	01/24/20 12:09	1
Thallium	**0.0062**		0.0020	0.0020	mg/L		01/23/20 15:55	01/24/20 12:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00029**		0.00020	0.00020	mg/L		01/27/20 11:30	01/28/20 09:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.019	0.0063	mg/Kg	☼	01/27/20 14:20	01/28/20 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58	F1 F2	0.58	0.29	mg/Kg	☼	01/27/20 10:10	01/27/20 14:18	1
pH	**6.7**		0.2	0.2	SU			01/21/20 15:30	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-1

Client Sample ID: 2900V-40-B01-2
Date Collected: 01/14/20 11:25
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-2
Matrix: Solid
Percent Solids: 84.7

Method: 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	0.00053	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Carbon disulfide	<0.0039		0.0039	0.00082	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	01/15/20 16:50	01/23/20 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*01/15/20 16:50*	*01/23/20 16:42*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 131*	*01/15/20 16:50*	*01/23/20 16:42*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*01/15/20 16:50*	*01/23/20 16:42*	*1*
Toluene-d8 (Surr)	*92*		*75 - 124*	*01/15/20 16:50*	*01/23/20 16:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1

Client Sample ID: 2900V-40-B01-2

Date Collected: 01/14/20 11:25
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-2

Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
2-Chlorophenol	<0.19	*	0.19	0.064	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
2-Nitroaniline	<0.19	*	0.19	0.051	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
3,3'-Dichlorobenzidine	<0.19	*	0.19	0.053	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Anthracene	**0.042**		0.037	0.0063	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Benzo[a]anthracene	**0.028**	**J**	0.037	0.0051	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Benzo[a]pyrene	**0.029**	**J**	0.037	0.0073	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Benzo[b]fluoranthene	**0.042**		0.037	0.0081	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Benzo[g,h,i]perylene	**0.024**	**J**	0.037	0.012	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Benzo[k]fluoranthene	**0.012**	**J**	0.037	0.011	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Bis(2-chloroethoxy)methane	<0.19	*	0.19	0.038	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Carbazole	<0.19	*	0.19	0.094	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Chrysene	**0.046**		0.037	0.010	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Fluoranthene	**0.065**		0.037	0.0070	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1

Client Sample ID: 2900V-40-B01-2

Date Collected: 01/14/20 11:25
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-2

Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Isophorone	<0.19	*	0.19	0.042	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Nitrobenzene	<0.037	*	0.037	0.0094	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.044	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Phenanthrene	**0.028**	**J**	0.037	0.0053	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1
Pyrene	**0.063**		0.037	0.0075	mg/Kg	☼	01/23/20 21:50	01/24/20 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*67*		*31 - 143*	*01/23/20 21:50*	*01/24/20 13:57*	*1*
2-Fluorobiphenyl	*81*		*43 - 145*	*01/23/20 21:50*	*01/24/20 13:57*	*1*
2-Fluorophenol	*123*		*31 - 166*	*01/23/20 21:50*	*01/24/20 13:57*	*1*
Nitrobenzene-d5	*118*		*37 - 147*	*01/23/20 21:50*	*01/24/20 13:57*	*1*
Phenol-d5	*114*		*30 - 153*	*01/23/20 21:50*	*01/24/20 13:57*	*1*
Terphenyl-d14	*97*		*42 - 157*	*01/23/20 21:50*	*01/24/20 13:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.59**	**J**	1.2	0.23	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Arsenic	**4.7**		0.58	0.20	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Barium	**53**		0.58	0.066	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Beryllium	**0.79**		0.23	0.054	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Boron	**16**		2.9	0.27	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Cadmium	**0.16**		0.12	0.021	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Calcium	**66000**	**B**	120	20	mg/Kg	☼	01/17/20 06:44	01/20/20 10:02	10
Chromium	**18**		0.58	0.29	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Cobalt	**13**		0.29	0.076	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Copper	**15**		0.58	0.16	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Iron	**17000**		12	6.0	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Lead	**21**		0.29	0.13	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Magnesium	**22000**		5.8	2.9	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Manganese	**280**		0.58	0.084	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Nickel	**29**		0.58	0.17	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Potassium	**3200**		29	10	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Silver	**2.8**		0.29	0.075	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Sodium	**730**		58	8.6	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Vanadium	**21**		0.29	0.068	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1
Zinc	**52**		1.2	0.51	mg/Kg	☼	01/17/20 06:44	01/17/20 18:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:15	01/27/20 14:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:15	01/27/20 14:34	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 14:34	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:15	01/27/20 14:34	1

Client Sample ID: 2900V-40-B01-2

Date Collected: 01/14/20 11:25
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-2

Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:15	01/27/20 14:34	1
Manganese	**0.56**		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 14:34	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 14:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.072**		0.050	0.010	mg/L		01/23/20 15:55	01/24/20 15:38	1
Barium	**0.59**		0.50	0.050	mg/L		01/23/20 15:55	01/24/20 15:38	1
Beryllium	**0.010**		0.0040	0.0040	mg/L		01/23/20 15:55	01/24/20 15:38	1
Boron	**0.26**		0.10	0.050	mg/L		01/23/20 15:55	01/24/20 15:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/23/20 15:55	01/24/20 15:38	1
Calcium	**110**		2.5	0.50	mg/L		01/23/20 15:55	01/24/20 15:38	1
Chromium	**0.20**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 15:38	1
Cobalt	**0.054**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 15:38	1
Iron	**180**		0.40	0.20	mg/L		01/23/20 15:55	01/24/20 15:38	1
Lead	**0.092**		0.0075	0.0075	mg/L		01/23/20 15:55	01/24/20 15:38	1
Manganese	**0.98**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 15:38	1
Nickel	**0.21**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 15:38	1
Potassium	**46**		2.5	0.50	mg/L		01/23/20 15:55	01/24/20 15:38	1
Selenium	<0.050		0.050	0.020	mg/L		01/23/20 15:55	01/24/20 15:38	1
Silver	**0.018**	**J**	0.025	0.010	mg/L		01/23/20 15:55	01/24/20 15:38	1
Zinc	**0.53**		0.50	0.020	mg/L		01/23/20 15:55	01/24/20 15:38	1

Method: 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		01/25/20 16:15	01/27/20 14:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:15	01/27/20 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0068**		0.0060	0.0060	mg/L		01/23/20 15:55	01/24/20 12:11	1
Thallium	**0.0050**		0.0020	0.0020	mg/L		01/23/20 15:55	01/24/20 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00035**		0.00020	0.00020	mg/L		01/27/20 11:30	01/28/20 09:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.015**	**J**	0.019	0.0063	mg/Kg	☼	01/27/20 14:20	01/28/20 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.43		0.43	0.21	mg/Kg	☼	01/27/20 10:10	01/27/20 14:19	1
pH	**7.0**		0.2	0.2	SU			01/21/20 15:39	1

Definitions/Glossary

Client: Andrews Engineering Inc. Job ID: 500-176324-1
Project/Site: IDOT - AE7-032

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance 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.
X	Surrogate is outside control limits

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 is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-1

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-1

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-1

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

Client Contact

Andrews Engineering, Ir
3300 Ginger Creek Driv
Springfield, IL 62711
217-787-2334 500-176324 COC
Contact: Colleen Grey
email: cgrey@andrews-eng.com

Laboratory

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

Project Name: AE7-32A
Project No.: PTB/WO:184-006/32A
TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ___ Other
Chad Nelson
Sampler:

COC No.: 1 of 1
Lab Job No.: 500-176324
Sample Temp: 5.6 & 2.1/c.6

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.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
1	2900V-40-B01-1	1/14	1120	S	X	X					X	X	X	X	X					
2	2900V-40-B01-2		1125																	
3	2900V-40-B02-1		1110																	
4	2900V-40-B02-2		1115																	
5	2900V-40-B03-1		1100																	
6	2900V-40-B03-2		1105																	

Relinquished by: Austin	Date/Time 1/14 1510	Received by: Patrick Buckley	Date/Time 1/14/20 1570
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
2041 East Glenwood Dyer Road

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52702 (Decimal Degrees) Longitude: -87.56716 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 262

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52702 Longitude: - 87.56716

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 2900V-41-B01 WAS SAMPLED ADJACENT TO SITE 2900V-41. SEE TABLE 3w AND FIGURE 4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176324-2.

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 20, 2020
Date:

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

LICENSED PROFESSIONAL GEOLOGIST
SAVO RADULOVIC
196-001303
ILLINOIS

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-41
Residence

Sample ID	2900V-41-B01	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-7					
Sample Date	1/14/2020	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0					
Sample pH	7.5					
Matrix	Soil					
No Contaminants of Concern Noted.						

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176324-2
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/30/2020 4:14:43 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: 2900V-41-B01 **Lab Sample ID: 500-176324-7**
Date Collected: 01/14/20 11:40 **Matrix: Solid**
Date Received: 01/14/20 15:10 **Percent Solids: 76.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
2-Butanone (MEK)	**0.0031**	**J**	0.0045	0.0020	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Acetone	**0.091**		0.018	0.0079	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	01/15/20 16:50	01/23/20 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*01/15/20 16:50*	*01/23/20 18:49*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*	*01/15/20 16:50*	*01/23/20 18:49*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*01/15/20 16:50*	*01/23/20 18:49*	*1*
Toluene-d8 (Surr)	*92*		*75 - 124*	*01/15/20 16:50*	*01/23/20 18:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
1,4-Dichlorobenzene	<0.21		0.21	0.055	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.050	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1

Client Sample ID: 2900V-41-B01
Date Collected: 01/14/20 11:40
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-7
Matrix: Solid
Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
2,4-Dinitrotoluene	<0.21		0.21	0.068	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
2,6-Dinitrotoluene	<0.21		0.21	0.084	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
2-Chlorophenol	<0.21	*	0.21	0.073	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
2-Methylnaphthalene	<0.086		0.086	0.0079	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
2-Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
2-Nitroaniline	<0.21	*	0.21	0.057	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
3,3'-Dichlorobenzidine	<0.21	*	0.21	0.060	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
4-Chloro-3-methylphenol	<0.42		0.42	0.15	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.050	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
4-Nitrophenol	<0.86		0.86	0.41	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Acenaphthene	<0.042		0.042	0.0077	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Benzo[a]pyrene	<0.042		0.042	0.0083	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Benzo[b]fluoranthene	<0.042		0.042	0.0092	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Benzo[k]fluoranthene	<0.042		0.042	0.013	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Bis(2-chloroethoxy)methane	<0.21	*	0.21	0.044	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.064	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.078	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Carbazole	<0.21	*	0.21	0.11	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0083	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Dimethyl phthalate	<0.21		0.21	0.056	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Di-n-octyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Fluoranthene	<0.042		0.042	0.0079	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Hexachlorobenzene	<0.086		0.086	0.0099	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Hexachlorocyclopentadiene	<0.86		0.86	0.25	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Hexachloroethane	<0.21		0.21	0.065	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-2

Client Sample ID: 2900V-41-B01
Date Collected: 01/14/20 11:40
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-7
Matrix: Solid
Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Isophorone	<0.21	*	0.21	0.048	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Naphthalene	<0.042		0.042	0.0066	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Nitrobenzene	<0.042	*	0.042	0.011	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
N-Nitrosodiphenylamine	<0.21	*	0.21	0.050	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Pentachlorophenol	<0.86		0.86	0.69	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Phenanthrene	<0.042		0.042	0.0060	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Phenol	<0.21		0.21	0.095	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1
Pyrene	**0.035**	**J**	0.042	0.0085	mg/Kg	☼	01/23/20 21:50	01/24/20 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*65*		*31 - 143*	*01/23/20 21:50*	*01/24/20 18:29*	*1*
2-Fluorobiphenyl	*76*		*43 - 145*	*01/23/20 21:50*	*01/24/20 18:29*	*1*
2-Fluorophenol	*114*		*31 - 166*	*01/23/20 21:50*	*01/24/20 18:29*	*1*
Nitrobenzene-d5	*110*		*37 - 147*	*01/23/20 21:50*	*01/24/20 18:29*	*1*
Phenol-d5	*110*		*30 - 153*	*01/23/20 21:50*	*01/24/20 18:29*	*1*
Terphenyl-d14	*90*		*42 - 157*	*01/23/20 21:50*	*01/24/20 18:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.46**	**J**	1.3	0.24	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Arsenic	**4.3**		0.63	0.21	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Barium	**97**		0.63	0.072	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Beryllium	**0.76**		0.25	0.059	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Boron	**7.8**		3.1	0.29	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Cadmium	**0.27**		0.13	0.023	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Calcium	**4100**	**B**	13	2.1	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Chromium	**17**		0.63	0.31	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Cobalt	**6.3**		0.31	0.082	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Copper	**18**		0.63	0.18	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Iron	**14000**		13	6.5	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Lead	**32**		0.31	0.15	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Magnesium	**3200**		6.3	3.1	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Manganese	**260**		0.63	0.091	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Nickel	**17**		0.63	0.18	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Potassium	**1900**		31	11	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Selenium	**0.47**	**J**	0.63	0.37	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Silver	**3.4**		0.31	0.081	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Sodium	**1300**		63	9.3	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Thallium	<0.63		0.63	0.31	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Vanadium	**25**		0.31	0.074	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1
Zinc	**74**		1.3	0.55	mg/Kg	☼	01/17/20 06:44	01/17/20 18:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:15	01/27/20 14:55	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 14:55	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:15	01/27/20 14:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:15	01/27/20 14:55	1

Client Sample ID: 2900V-41-B01
Date Collected: 01/14/20 11:40
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-7
Matrix: Solid
Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**2.4**		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 14:55	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.041**	**J**	0.050	0.010	mg/L		01/23/20 15:55	01/24/20 15:58	1
Barium	**0.76**		0.50	0.050	mg/L		01/23/20 15:55	01/24/20 15:58	1
Beryllium	**0.0081**		0.0040	0.0040	mg/L		01/23/20 15:55	01/24/20 15:58	1
Boron	**0.14**		0.10	0.050	mg/L		01/23/20 15:55	01/24/20 15:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/23/20 15:55	01/24/20 15:58	1
Calcium	**27**		2.5	0.50	mg/L		01/23/20 15:55	01/24/20 15:58	1
Chromium	**0.18**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 15:58	1
Cobalt	**0.047**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 15:58	1
Iron	**150**		0.40	0.20	mg/L		01/23/20 15:55	01/24/20 15:58	1
Lead	**0.095**		0.0075	0.0075	mg/L		01/23/20 15:55	01/24/20 15:58	1
Manganese	**0.97**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 15:58	1
Nickel	**0.17**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 15:58	1
Potassium	**25**		2.5	0.50	mg/L		01/23/20 15:55	01/24/20 15:58	1
Selenium	<0.050		0.050	0.020	mg/L		01/23/20 15:55	01/24/20 15:58	1
Silver	**0.014**	**J**	0.025	0.010	mg/L		01/23/20 15:55	01/24/20 15:58	1
Zinc	**0.51**		0.50	0.020	mg/L		01/23/20 15:55	01/24/20 15:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:15	01/27/20 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/23/20 15:55	01/24/20 12:21	1
Thallium	**0.0028**		0.0020	0.0020	mg/L		01/23/20 15:55	01/24/20 12:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00034**		0.00020	0.00020	mg/L		01/27/20 11:30	01/28/20 09:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.020	0.0068	mg/Kg	☼	01/27/20 14:20	01/28/20 08:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.62		0.62	0.31	mg/Kg	☼	01/27/20 10:10	01/27/20 14:22	1
pH	**7.5**		0.2	0.2	SU			01/21/20 16:01	1

Definitions/Glossary

Client: Andrews Engineering Inc. Job ID: 500-176324-2
Project/Site: IDOT - AE7-032

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc. Job ID: 500-176324-2
Project/Site: IDOT - AE7-032

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-2

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-2

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-2

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING

Client Contact	Laboratory
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com

Project Name: AC7-32A

Project No.: PTB/WO:184-006/32A

TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other

Sampler: Chad Nelson

COC No.: 1 of 1

Lab Job No.: 500-176324

Sample Temp: 5.6 5.9, 2.9, 1.6

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.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
7	2900V-41-1301	1/14	1140	S	X	X					X	X	X	X	X					
8	2900V-41-1302	1/14	1145	S	↓	↓					↓	↓	↓	↓	↓					

Relinquished by: Matt Lee	Date/Time 1/14 1510	Received by: Paula Buckley	Date/Time 1/14/20 1516
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
2115 East Glenwood Dyer Road

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52632 (Decimal Degrees) Longitude: -87.56548 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 2,196

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52632 Longitude: - 87.56548

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 2900V-42-B01, 2900V-42-B04 AND 2900V-42-B05 WERE SAMPLED ADJACENT TO SITE 2900V-42. SEE TABLE 3x AND FIGURE 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176324-3.

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 20, 2020
Date:

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

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-42
Woodard and Sons Construction

Sample ID	2900V-42-B01		2900V-42-B04		2900V-42-B05		**Maximum Allowable Concentration**				
Sample Depth (ft)	0-7		0-7		0-7						
Sample Date	1/14/2020		1/14/2020		1/14/2020						
PID	0		0		0						
Sample pH	7		6.6		7.1		[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
Matrix	Soil		Soil		Soil						
Inorganic Compounds, Total (mg/kg)											
Arsenic	**11**		**7.6**		**12**	**1,3**	11.3	--	11.3	--	13

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176324-3
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/30/2020 4:15:17 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-3

Client Sample ID: 2900V-42-B01
Date Collected: 01/14/20 11:55
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-9
Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	01/15/20 16:50	01/23/20 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*01/15/20 16:50*	*01/23/20 19:40*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*	*01/15/20 16:50*	*01/23/20 19:40*	*1*
Dibromofluoromethane	*101*		*75 - 126*	*01/15/20 16:50*	*01/23/20 19:40*	*1*
Toluene-d8 (Surr)	*91*		*75 - 124*	*01/15/20 16:50*	*01/23/20 19:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1

Client Sample ID: 2900V-42-B01
Date Collected: 01/14/20 11:55
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-9
Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
2-Chlorophenol	<0.20	*	0.20	0.068	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
2-Nitroaniline	<0.20	*	0.20	0.053	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
3,3'-Dichlorobenzidine	<0.20	*	0.20	0.056	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Bis(2-chloroethoxy)methane	<0.20	*	0.20	0.041	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Carbazole	<0.20	*	0.20	0.099	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-3

Client Sample ID: 2900V-42-B01
Date Collected: 01/14/20 11:55
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-9
Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Isophorone	<0.20	*	0.20	0.045	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Nitrobenzene	<0.039	*	0.039	0.0099	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.047	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	01/23/20 21:50	01/24/20 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*		*31 - 143*	*01/23/20 21:50*	*01/24/20 19:30*	*1*
2-Fluorobiphenyl	*72*		*43 - 145*	*01/23/20 21:50*	*01/24/20 19:30*	*1*
2-Fluorophenol	*110*		*31 - 166*	*01/23/20 21:50*	*01/24/20 19:30*	*1*
Nitrobenzene-d5	*99*		*37 - 147*	*01/23/20 21:50*	*01/24/20 19:30*	*1*
Phenol-d5	*114*		*30 - 153*	*01/23/20 21:50*	*01/24/20 19:30*	*1*
Terphenyl-d14	*97*		*42 - 157*	*01/23/20 21:50*	*01/24/20 19:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.55**	**J**	1.2	0.23	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Arsenic	**11**		0.59	0.20	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Barium	**62**		0.59	0.067	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Beryllium	**0.93**		0.24	0.055	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Boron	**6.7**		2.9	0.27	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Cadmium	**0.13**		0.12	0.021	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Calcium	**1800**	**B**	12	2.0	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Chromium	**23**		0.59	0.29	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Cobalt	**6.4**		0.29	0.077	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Copper	**23**		0.59	0.16	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Iron	**25000**		12	6.1	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Lead	**32**		0.29	0.14	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Magnesium	**3500**		5.9	2.9	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Manganese	**110**		0.59	0.085	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Nickel	**19**		0.59	0.17	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Potassium	**1800**		29	10	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Silver	**2.6**		0.29	0.076	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Sodium	**93**		59	8.7	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Vanadium	**35**		0.29	0.070	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1
Zinc	**59**		1.2	0.52	mg/Kg	☼	01/17/20 06:44	01/17/20 18:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		01/25/20 16:15	01/27/20 15:03	1

Client Sample ID: 2900V-42-B01 — Lab Sample ID: 500-176324-9

Date Collected: 01/14/20 11:55 — **Matrix: Solid**
Date Received: 01/14/20 15:10 — **Percent Solids: 79.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/23/20 15:55	01/24/20 16:06	1
Barium	**0.082**	**J**	0.50	0.050	mg/L		01/23/20 15:55	01/24/20 16:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/23/20 15:55	01/24/20 16:06	1
Boron	**0.093**	**J**	0.10	0.050	mg/L		01/23/20 15:55	01/24/20 16:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/23/20 15:55	01/24/20 16:06	1
Calcium	**12**		2.5	0.50	mg/L		01/23/20 15:55	01/24/20 16:06	1
Chromium	**0.019**	**J**	0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:06	1
Cobalt	<0.025		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:06	1
Iron	**14**		0.40	0.20	mg/L		01/23/20 15:55	01/24/20 16:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/23/20 15:55	01/24/20 16:06	1
Manganese	**0.039**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:06	1
Nickel	**0.015**	**J**	0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:06	1
Potassium	**4.6**		2.5	0.50	mg/L		01/23/20 15:55	01/24/20 16:06	1
Selenium	<0.050		0.050	0.020	mg/L		01/23/20 15:55	01/24/20 16:06	1
Silver	<0.025		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:06	1
Zinc	**0.058**	**J**	0.50	0.020	mg/L		01/23/20 15:55	01/24/20 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/23/20 15:55	01/24/20 12:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		01/23/20 15:55	01/24/20 12:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	F1	0.00020	0.00020	mg/L		01/27/20 11:30	01/28/20 09:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.036**		0.018	0.0060	mg/Kg	☼	01/27/20 14:20	01/28/20 08:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.28	mg/Kg	☼	01/27/20 10:10	01/27/20 14:23	1
pH	**7.0**		0.2	0.2	SU			01/21/20 16:10	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-3

Client Sample ID: 2900V-42-B04
Date Collected: 01/14/20 13:10
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-13
Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
2-Butanone (MEK)	**0.0041**	**J**	0.0045	0.0020	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Acetone	**0.018**		0.018	0.0078	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	01/15/20 16:50	01/23/20 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*01/15/20 16:50*	*01/23/20 21:21*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 131*	*01/15/20 16:50*	*01/23/20 21:21*	*1*
Dibromofluoromethane	*98*		*75 - 126*	*01/15/20 16:50*	*01/23/20 21:21*	*1*
Toluene-d8 (Surr)	*91*		*75 - 124*	*01/15/20 16:50*	*01/23/20 21:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
2,2'-oxybis[1-chloropropane]	<0.20	*	0.20	0.046	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-3

Client Sample ID: 2900V-42-B04
Date Collected: 01/14/20 13:10
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-13
Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
2-Chlorophenol	<0.20	*	0.20	0.067	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
2-Methylnaphthalene	<0.079	*	0.079	0.0072	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Bis(2-chloroethoxy)methane	<0.20	*	0.20	0.040	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Bis(2-chloroethyl)ether	<0.20	*	0.20	0.059	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1

Client Sample ID: 2900V-42-B04
Date Collected: 01/14/20 13:10
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-13
Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Isophorone	<0.20	*	0.20	0.044	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Nitrobenzene	<0.039	*	0.039	0.0098	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Phenol	<0.20	*	0.20	0.087	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	01/23/20 21:50	01/24/20 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*132*		*31 - 143*	*01/23/20 21:50*	*01/24/20 23:36*	*1*
2-Fluorobiphenyl	*100*		*43 - 145*	*01/23/20 21:50*	*01/24/20 23:36*	*1*
2-Fluorophenol	*105*		*31 - 166*	*01/23/20 21:50*	*01/24/20 23:36*	*1*
Nitrobenzene-d5	*109*		*37 - 147*	*01/23/20 21:50*	*01/24/20 23:36*	*1*
Phenol-d5	*129*		*30 - 153*	*01/23/20 21:50*	*01/24/20 23:36*	*1*
Terphenyl-d14	*147*		*42 - 157*	*01/23/20 21:50*	*01/24/20 23:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.38**	**J**	1.2	0.23	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Arsenic	**7.6**		0.59	0.20	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Barium	**100**		0.59	0.067	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Beryllium	**0.89**		0.24	0.055	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Boron	**6.9**		2.9	0.27	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Cadmium	**0.12**		0.12	0.021	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Calcium	**2000**	**B**	12	2.0	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Chromium	**24**		0.59	0.29	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Cobalt	**6.2**		0.29	0.077	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Copper	**20**		0.59	0.16	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Iron	**24000**		12	6.1	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Lead	**32**		0.29	0.14	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Magnesium	**3400**		5.9	2.9	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Manganese	**140**		0.59	0.085	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Nickel	**21**		0.59	0.17	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Potassium	**2000**		29	10	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Silver	**3.2**		0.29	0.076	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Sodium	**1400**		59	8.7	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Vanadium	**36**		0.29	0.069	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1
Zinc	**66**		1.2	0.52	mg/Kg	☼	01/17/20 06:44	01/17/20 19:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:15	01/27/20 15:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:15	01/27/20 15:28	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 15:28	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:15	01/27/20 15:28	1

Client Sample ID: 2900V-42-B04 **Lab Sample ID: 500-176324-13**
Date Collected: 01/14/20 13:10 **Matrix: Solid**
Date Received: 01/14/20 15:10 **Percent Solids: 79.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:15	01/27/20 15:28	1
Manganese	**1.4**		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 15:28	1
Nickel	**0.018**	**J**	0.025	0.010	mg/L		01/25/20 16:15	01/27/20 15:28	1

Method: 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		01/23/20 15:55	01/24/20 16:29	1
Barium	**0.94**		0.50	0.050	mg/L		01/23/20 15:55	01/24/20 16:29	1
Beryllium	**0.011**		0.0040	0.0040	mg/L		01/23/20 15:55	01/24/20 16:29	1
Boron	**0.22**		0.10	0.050	mg/L		01/23/20 15:55	01/24/20 16:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/23/20 15:55	01/24/20 16:29	1
Calcium	**34**		2.5	0.50	mg/L		01/23/20 15:55	01/24/20 16:29	1
Chromium	**0.24**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:29	1
Cobalt	**0.056**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:29	1
Iron	**230**		0.40	0.20	mg/L		01/23/20 15:55	01/24/20 16:29	1
Lead	**0.092**		0.0075	0.0075	mg/L		01/23/20 15:55	01/24/20 16:29	1
Manganese	**1.0**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:29	1
Nickel	**0.27**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:29	1
Potassium	**35**		2.5	0.50	mg/L		01/23/20 15:55	01/24/20 16:29	1
Selenium	<0.050		0.050	0.020	mg/L		01/23/20 15:55	01/24/20 16:29	1
Silver	**0.018**	**J**	0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:29	1
Zinc	**0.73**		0.50	0.020	mg/L		01/23/20 15:55	01/24/20 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:15	01/27/20 15:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/23/20 15:55	01/24/20 12:37	1
Thallium	**0.0046**		0.0020	0.0020	mg/L		01/23/20 15:55	01/24/20 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00042**		0.00020	0.00020	mg/L		01/27/20 11:30	01/28/20 10:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.018	0.0060	mg/Kg	☼	01/27/20 14:20	01/28/20 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.43		0.43	0.22	mg/Kg	☼	01/27/20 10:10	01/27/20 14:24	1
pH	**6.6**		0.2	0.2	SU			01/21/20 16:33	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-3

Client Sample ID: 2900V-42-B05
Date Collected: 01/14/20 13:15
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-14
Matrix: Solid
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Acetone	**0.018**		0.018	0.0079	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	01/15/20 16:50	01/23/20 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*01/15/20 16:50*	*01/23/20 21:47*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 131*	*01/15/20 16:50*	*01/23/20 21:47*	*1*
Dibromofluoromethane	*99*		*75 - 126*	*01/15/20 16:50*	*01/23/20 21:47*	*1*
Toluene-d8 (Surr)	*90*		*75 - 124*	*01/15/20 16:50*	*01/23/20 21:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
2,2'-oxybis[1-chloropropane]	<0.21	*	0.21	0.049	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1

Client Sample ID: 2900V-42-B05
Date Collected: 01/14/20 13:15
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-14
Matrix: Solid
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
2,4-Dinitrophenol	<0.85		0.85	0.75	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
2-Chlorophenol	<0.21	*	0.21	0.072	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
2-Methylnaphthalene	<0.085	*	0.085	0.0078	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Acenaphthene	<0.042		0.042	0.0076	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Benzo[a]pyrene	<0.042		0.042	0.0082	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Benzo[b]fluoranthene	<0.042		0.042	0.0091	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Bis(2-chloroethoxy)methane	<0.21	*	0.21	0.043	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Bis(2-chloroethyl)ether	<0.21	*	0.21	0.063	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Fluoranthene	<0.042		0.042	0.0079	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1

Client Sample ID: 2900V-42-B05 **Lab Sample ID: 500-176324-14**
Date Collected: 01/14/20 13:15 **Matrix: Solid**
Date Received: 01/14/20 15:10 **Percent Solids: 77.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Isophorone	<0.21	*	0.21	0.048	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Nitrobenzene	<0.042	*	0.042	0.011	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.052	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Phenol	<0.21	*	0.21	0.094	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1
Pyrene	<0.042		0.042	0.0084	mg/Kg	☼	01/23/20 21:50	01/25/20 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*133*		*31 - 143*	*01/23/20 21:50*	*01/25/20 00:01*	*1*
2-Fluorobiphenyl	*115*		*43 - 145*	*01/23/20 21:50*	*01/25/20 00:01*	*1*
2-Fluorophenol	*113*		*31 - 166*	*01/23/20 21:50*	*01/25/20 00:01*	*1*
Nitrobenzene-d5	*130*		*37 - 147*	*01/23/20 21:50*	*01/25/20 00:01*	*1*
Phenol-d5	*130*		*30 - 153*	*01/23/20 21:50*	*01/25/20 00:01*	*1*
Terphenyl-d14	*151*		*42 - 157*	*01/23/20 21:50*	*01/25/20 00:01*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.9		5.9	1.2	mg/Kg	☼	01/17/20 06:44	01/20/20 14:05	5
Arsenic	**12**		3.0	1.0	mg/Kg	☼	01/17/20 06:44	01/20/20 14:05	5
Barium	**95**		0.59	0.068	mg/Kg	☼	01/17/20 06:44	01/20/20 14:01	1
Beryllium	**0.96**		0.24	0.055	mg/Kg	☼	01/17/20 06:44	01/20/20 14:01	1
Boron	**7.7**	**J**	15	1.4	mg/Kg	☼	01/17/20 06:44	01/21/20 09:12	5
Cadmium	<0.59		0.59	0.11	mg/Kg	☼	01/17/20 06:44	01/20/20 14:05	5
Calcium	**1300**	**B**	12	2.0	mg/Kg	☼	01/17/20 06:44	01/20/20 14:01	1
Chromium	**28**		3.0	1.5	mg/Kg	☼	01/17/20 06:44	01/20/20 14:05	5
Cobalt	**13**		0.30	0.078	mg/Kg	☼	01/17/20 06:44	01/17/20 19:09	1
Copper	**38**		3.0	0.83	mg/Kg	☼	01/17/20 06:44	01/20/20 14:05	5
Iron	**22000**		12	6.2	mg/Kg	☼	01/17/20 06:44	01/20/20 14:01	1
Lead	**29**		0.30	0.14	mg/Kg	☼	01/17/20 06:44	01/17/20 19:09	1
Magnesium	**3500**		5.9	2.9	mg/Kg	☼	01/17/20 06:44	01/20/20 14:01	1
Manganese	**200**		0.59	0.086	mg/Kg	☼	01/17/20 06:44	01/20/20 14:01	1
Nickel	**55**		0.59	0.17	mg/Kg	☼	01/17/20 06:44	01/17/20 19:09	1
Potassium	**2200**		30	11	mg/Kg	☼	01/17/20 06:44	01/20/20 14:01	1
Selenium	<3.0		3.0	1.7	mg/Kg	☼	01/17/20 06:44	01/20/20 14:05	5
Silver	**0.58**	**J**	1.5	0.38	mg/Kg	☼	01/17/20 06:44	01/20/20 14:05	5
Sodium	**1700**		59	8.8	mg/Kg	☼	01/17/20 06:44	01/20/20 14:01	1
Thallium	<0.59		0.59	0.30	mg/Kg	☼	01/17/20 06:44	01/17/20 19:09	1
Vanadium	**35**		1.5	0.35	mg/Kg	☼	01/17/20 06:44	01/20/20 14:05	5
Zinc	**100**		1.2	0.52	mg/Kg	☼	01/17/20 06:44	01/17/20 19:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:15	01/27/20 15:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:15	01/27/20 15:32	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 15:32	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:15	01/27/20 15:32	1

Client Sample ID: 2900V-42-B05

Date Collected: 01/14/20 13:15
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-14

Matrix: Solid
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:15	01/27/20 15:32	1
Manganese	**0.79**		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 15:32	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 15:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.079**		0.050	0.010	mg/L		01/23/20 15:55	01/24/20 16:33	1
Barium	**0.76**		0.50	0.050	mg/L		01/23/20 15:55	01/24/20 16:33	1
Beryllium	**0.0095**		0.0040	0.0040	mg/L		01/23/20 15:55	01/24/20 16:33	1
Boron	**0.17**		0.10	0.050	mg/L		01/23/20 15:55	01/24/20 16:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/23/20 15:55	01/24/20 16:33	1
Calcium	**24**		2.5	0.50	mg/L		01/23/20 15:55	01/24/20 16:33	1
Chromium	**0.21**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:33	1
Cobalt	**0.049**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:33	1
Iron	**200**		0.40	0.20	mg/L		01/23/20 15:55	01/24/20 16:33	1
Lead	**0.094**		0.0075	0.0075	mg/L		01/23/20 15:55	01/24/20 16:33	1
Manganese	**0.55**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:33	1
Nickel	**0.22**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:33	1
Potassium	**31**		2.5	0.50	mg/L		01/23/20 15:55	01/24/20 16:33	1
Selenium	<0.050		0.050	0.020	mg/L		01/23/20 15:55	01/24/20 16:33	1
Silver	**0.014**	**J**	0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:33	1
Zinc	**0.64**		0.50	0.020	mg/L		01/23/20 15:55	01/24/20 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:15	01/27/20 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/23/20 15:55	01/24/20 12:39	1
Thallium	**0.0062**		0.0020	0.0020	mg/L		01/23/20 15:55	01/24/20 12:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00054**		0.00020	0.00020	mg/L		01/27/20 11:30	01/28/20 10:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.020	0.0068	mg/Kg	☼	01/27/20 14:20	01/28/20 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.28	mg/Kg	☼	01/27/20 10:10	01/27/20 14:25	1
pH	**7.1**		0.2	0.2	SU			01/21/20 16:38	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-3

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc. Job ID: 500-176324-3
Project/Site: IDOT - AE7-032

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-3

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: AE7-32A Project No.: PTB/WO: 184-006/32A TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other Sampler: Chad Nelson

COC No.: 1 of 1

Lab Job No.: 500-176324

Sample Temp: 5.6 1/14/20

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.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
9	2900V-42-B01	1/14	1155	S	X	X					X	X	X	X	X					
10	2900V-42-B02		1200																	
11	2900V-42-B02 DUP		1205																	
12	2900V-42-B03		1300																	
13	2900V-42-B04		1310																	
14	2900V-42-B05		1315	↓	↓	↓					↓	↓	↓	↓	↓					

Relinquished by: Matt Gw	Date/Time 1/14 1510	Received by: Paula Buckley	Date/Time 1/14/20 1510
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
2152 East Glenwood Dyer Road

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52653 (Decimal Degrees) Longitude: -87.56531 (-Decimal Degrees)

Identify how the lat/long data were determined:

◯ GPS ⊘ Map Interpolation ◯ Photo Interpolation ◯ Survey ◯ Other

IEPA Site Number(s), if assigned: BOL: 0311680005 BOW: BOA:

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 224

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52653 Longitude: - 87.56531

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 2900V-44-B01 AND 2900V-44-B02 WERE SAMPLED ADJACENT TO SITE 2900V-44. SEE TABLE 3z AND FIGURE 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176324-5.

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 20, 2020
Date:

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

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-44
Commercial Building

Sample ID	2900V-44-B01	2900V-44-B02	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-6	0-6					
Sample Date	1/14/2020	1/14/2020					
PID	0	0					
Sample pH	6.4	6.8	[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
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176324-5
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/30/2020 4:15:51 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-5

Client Sample ID: 2900V-44-B01
Date Collected: 01/14/20 10:10
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-17
Matrix: Solid
Percent Solids: 84.6

Method: 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	0.00053	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Acetone	**0.049**		0.016	0.0069	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Carbon disulfide	<0.0040		0.0040	0.00082	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*01/15/20 16:50*	*01/24/20 12:30*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*01/15/20 16:50*	*01/24/20 12:30*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*01/15/20 16:50*	*01/24/20 12:30*	*1*
Toluene-d8 (Surr)	*103*		*75 - 124*	*01/15/20 16:50*	*01/24/20 12:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-5

Client Sample ID: 2900V-44-B01
Date Collected: 01/14/20 10:10
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-17
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
2-Chlorophenol	<0.19	*	0.19	0.065	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
2-Nitroaniline	<0.19	*	0.19	0.051	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
3,3'-Dichlorobenzidine	<0.19	*	0.19	0.053	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Bis(2-chloroethoxy)methane	<0.19	*	0.19	0.039	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Carbazole	<0.19	*	0.19	0.095	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-5

Client Sample ID: 2900V-44-B01
Date Collected: 01/14/20 10:10
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-17
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Isophorone	<0.19	*	0.19	0.043	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Nitrobenzene	<0.038	*	0.038	0.0095	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.045	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	01/23/20 21:50	01/25/20 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*131*		*31 - 143*	*01/23/20 21:50*	*01/25/20 01:17*	*1*
2-Fluorobiphenyl	*118*		*43 - 145*	*01/23/20 21:50*	*01/25/20 01:17*	*1*
2-Fluorophenol	*109*		*31 - 166*	*01/23/20 21:50*	*01/25/20 01:17*	*1*
Nitrobenzene-d5	*133*		*37 - 147*	*01/23/20 21:50*	*01/25/20 01:17*	*1*
Phenol-d5	*128*		*30 - 153*	*01/23/20 21:50*	*01/25/20 01:17*	*1*
Terphenyl-d14	*128*		*42 - 157*	*01/23/20 21:50*	*01/25/20 01:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.37**	**J**	1.2	0.23	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Arsenic	**7.5**		0.58	0.20	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Barium	**59**		0.58	0.066	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Beryllium	**0.69**		0.23	0.054	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Boron	**10**		2.9	0.27	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Cadmium	**0.18**		0.12	0.021	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Calcium	**14000**	**B**	12	2.0	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Chromium	**16**		0.58	0.29	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Cobalt	**11**		0.29	0.076	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Copper	**14**		0.58	0.16	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Iron	**16000**		12	6.1	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Lead	**21**		0.29	0.13	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Magnesium	**11000**		5.8	2.9	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Manganese	**360**		0.58	0.084	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Nickel	**26**		0.58	0.17	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Potassium	**1900**		29	10	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Silver	**3.2**		0.29	0.075	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Sodium	**480**		58	8.6	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Vanadium	**23**		0.29	0.069	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1
Zinc	**46**		1.2	0.51	mg/Kg	☼	01/17/20 06:44	01/17/20 19:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:15	01/27/20 15:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:15	01/27/20 15:45	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 15:45	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:15	01/27/20 15:45	1

Client Sample ID: 2900V-44-B01 **Lab Sample ID: 500-176324-17**
Date Collected: 01/14/20 10:10 **Matrix: Solid**
Date Received: 01/14/20 15:10 **Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:15	01/27/20 15:45	1
Manganese	**0.72**		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 15:45	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 15:45	1

Method: 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		01/23/20 15:55	01/24/20 16:45	1
Barium	**0.40**	**J**	0.50	0.050	mg/L		01/23/20 15:55	01/24/20 16:45	1
Beryllium	**0.0065**		0.0040	0.0040	mg/L		01/23/20 15:55	01/24/20 16:45	1
Boron	**0.20**		0.10	0.050	mg/L		01/23/20 15:55	01/24/20 16:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/23/20 15:55	01/24/20 16:45	1
Calcium	**59**		2.5	0.50	mg/L		01/23/20 15:55	01/24/20 16:45	1
Chromium	**0.13**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:45	1
Cobalt	**0.032**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:45	1
Iron	**130**		0.40	0.20	mg/L		01/23/20 15:55	01/24/20 16:45	1
Lead	**0.068**		0.0075	0.0075	mg/L		01/23/20 15:55	01/24/20 16:45	1
Manganese	**0.57**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:45	1
Nickel	**0.13**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:45	1
Potassium	**30**		2.5	0.50	mg/L		01/23/20 15:55	01/24/20 16:45	1
Selenium	<0.050		0.050	0.020	mg/L		01/23/20 15:55	01/24/20 16:45	1
Silver	<0.025		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:45	1
Zinc	**0.37**	**J**	0.50	0.020	mg/L		01/23/20 15:55	01/24/20 16:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:15	01/27/20 15:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/23/20 15:55	01/24/20 12:45	1
Thallium	**0.0025**		0.0020	0.0020	mg/L		01/23/20 15:55	01/24/20 12:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00026**		0.00020	0.00020	mg/L		01/27/20 11:30	01/28/20 10:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0096**	**J**	0.018	0.0059	mg/Kg	☼	01/27/20 14:20	01/28/20 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.26	mg/Kg	☼	01/27/20 10:10	01/27/20 14:27	1
pH	**6.4**		0.2	0.2	SU			01/21/20 16:51	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-5

Client Sample ID: 2900V-44-B02
Date Collected: 01/14/20 09:30
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-18
Matrix: Solid
Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	01/15/20 16:50	01/24/20 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*01/15/20 16:50*	*01/24/20 12:55*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*01/15/20 16:50*	*01/24/20 12:55*	*1*
Dibromofluoromethane	*90*		*75 - 126*	*01/15/20 16:50*	*01/24/20 12:55*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*01/15/20 16:50*	*01/24/20 12:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1

Client Sample ID: 2900V-44-B02
Date Collected: 01/14/20 09:30
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-18
Matrix: Solid
Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
2-Chlorophenol	<0.20	*	0.20	0.069	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
2-Nitroaniline	<0.20	*	0.20	0.055	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
3,3'-Dichlorobenzidine	<0.20	*	0.20	0.057	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Bis(2-chloroethoxy)methane	<0.20	*	0.20	0.041	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Carbazole	<0.20	*	0.20	0.10	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-5

Client Sample ID: 2900V-44-B02
Date Collected: 01/14/20 09:30
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176324-18
Matrix: Solid
Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Isophorone	<0.20	*	0.20	0.046	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Nitrobenzene	<0.040	*	0.040	0.010	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.048	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	01/23/20 21:50	01/25/20 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*120*		*31 - 143*	*01/23/20 21:50*	*01/25/20 01:42*	*1*
2-Fluorobiphenyl	*108*		*43 - 145*	*01/23/20 21:50*	*01/25/20 01:42*	*1*
2-Fluorophenol	*106*		*31 - 166*	*01/23/20 21:50*	*01/25/20 01:42*	*1*
Nitrobenzene-d5	*125*		*37 - 147*	*01/23/20 21:50*	*01/25/20 01:42*	*1*
Phenol-d5	*122*		*30 - 153*	*01/23/20 21:50*	*01/25/20 01:42*	*1*
Terphenyl-d14	*138*		*42 - 157*	*01/23/20 21:50*	*01/25/20 01:42*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.44**	**J**	1.1	0.22	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Arsenic	**8.8**		0.57	0.19	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Barium	**65**		0.57	0.065	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Beryllium	**0.82**		0.23	0.053	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Boron	**6.6**		2.8	0.26	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Cadmium	**0.13**		0.11	0.020	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Calcium	**1900**	**B**	11	1.9	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Chromium	**22**		0.57	0.28	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Cobalt	**11**		0.28	0.074	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Copper	**17**		0.57	0.16	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Iron	**24000**		11	5.9	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Lead	**30**		0.28	0.13	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Magnesium	**3400**		5.7	2.8	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Manganese	**250**		0.57	0.082	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Nickel	**20**		0.57	0.17	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Potassium	**1800**		28	10	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Selenium	<0.57		0.57	0.33	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Silver	**2.9**		0.28	0.073	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Sodium	**1100**		57	8.4	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Vanadium	**35**		0.28	0.067	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1
Zinc	**53**		1.1	0.50	mg/Kg	☼	01/17/20 06:44	01/17/20 19:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/25/20 16:15	01/27/20 15:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/25/20 16:15	01/27/20 15:49	1
Chromium	<0.025		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 15:49	1
Iron	<0.40		0.40	0.20	mg/L		01/25/20 16:15	01/27/20 15:49	1

Client Sample ID: 2900V-44-B02 — Lab Sample ID: 500-176324-18

Date Collected: 01/14/20 09:30 — **Matrix: Solid**
Date Received: 01/14/20 15:10 — **Percent Solids: 80.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/25/20 16:15	01/27/20 15:49	1
Manganese	**0.66**		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 15:49	1
Nickel	<0.025		0.025	0.010	mg/L		01/25/20 16:15	01/27/20 15:49	1

Method: 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		01/23/20 15:55	01/24/20 16:49	1
Barium	**1.0**		0.50	0.050	mg/L		01/23/20 15:55	01/24/20 16:49	1
Beryllium	**0.014**		0.0040	0.0040	mg/L		01/23/20 15:55	01/24/20 16:49	1
Boron	**0.21**		0.10	0.050	mg/L		01/23/20 15:55	01/24/20 16:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/23/20 15:55	01/24/20 16:49	1
Calcium	**26**		2.5	0.50	mg/L		01/23/20 15:55	01/24/20 16:49	1
Chromium	**0.28**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:49	1
Cobalt	**0.075**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:49	1
Iron	**280**		0.40	0.20	mg/L		01/23/20 15:55	01/24/20 16:49	1
Lead	**0.13**		0.0075	0.0075	mg/L		01/23/20 15:55	01/24/20 16:49	1
Manganese	**1.6**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:49	1
Nickel	**0.40**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:49	1
Potassium	**40**		2.5	0.50	mg/L		01/23/20 15:55	01/24/20 16:49	1
Selenium	<0.050		0.050	0.020	mg/L		01/23/20 15:55	01/24/20 16:49	1
Silver	**0.030**		0.025	0.010	mg/L		01/23/20 15:55	01/24/20 16:49	1
Zinc	**0.72**		0.50	0.020	mg/L		01/23/20 15:55	01/24/20 16:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/25/20 16:15	01/27/20 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/23/20 15:55	01/24/20 12:47	1
Thallium	**0.0039**		0.0020	0.0020	mg/L		01/23/20 15:55	01/24/20 12:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00061**		0.00033	0.00033	mg/L		01/27/20 11:30	01/28/20 10:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**		0.018	0.0061	mg/Kg	☼	01/27/20 14:20	01/28/20 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.44		0.44	0.22	mg/Kg	☼	01/27/20 10:10	01/27/20 14:27	1
pH	**6.8**		0.2	0.2	SU			01/21/20 16:56	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-5

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
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 is outside acceptance 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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc. Job ID: 500-176324-5
Project/Site: IDOT - AE7-032

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-5

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176324-5

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory		Project Name: AE7-32A	COC No.: 1 of 1
Andrews Engineering, Inc.	Lab:	Test America - Chicago	Project No.: PTB/WO: 184-006/32A	Lab Job No.: 500-176324
3300 Ginger Creek Drive	Address:	2417 Bond Street		
Springfield, IL 62711		University Park, IL 60484		
217-787-2334	Phone:	708-534-5200	TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other	Sample Temp: 5.9, 2.9, 1.6, 5.6
Contact: Colleen Grey	Contact:	Dick Wright		
email: cgrey@andrews-eng.com	email:	richard.wright@testamericainc.com	Sampler: Chad Nelson	

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.

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

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				Comments
17	2900V-44-B01	1/14	1010	S	X	X					X	X	X	X	X					
18	2900V-44-B02	↓	0930	↓	↓	↓					↓	↓	↓	↓	↓					
19	2900V-44-B03	↓	0920	↓	↓	↓					↓	↓	↓	↓	↓					

Relinquished by:	Date/Time	Received by:	Date/Time
[signature]	1/14 1510	Paula Buckley	1/14/20 1510

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
2180 East Glenwood Dyer Road

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52623 (Decimal Degrees) Longitude: -87.56456 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 91

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52623 Longitude: - 87.56456

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION 2900V-45-B01 WAS SAMPLED ADJACENT TO SITE 2900V-45. SEE TABLE 3aa AND FIGURE 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176325-1.

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 20, 2020
Date:

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

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-45
Warsaw Inn

Sample ID	2900V-45-B01	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-3					
Sample Date	1/14/2020	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0					
Sample pH	8.6					
Matrix	Soil					
No Contaminants of Concern Noted.						

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176325-1
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/29/2020 4:25:25 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: 2900V-45-B01 **Lab Sample ID: 500-176325-1**
Date Collected: 01/14/20 09:15 **Matrix: Solid**
Date Received: 01/14/20 15:10 **Percent Solids: 84.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
2-Butanone (MEK)	<0.0048		0.0048	0.0021	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Acetone	**0.013**	**J**	0.019	0.0083	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Bromomethane	<0.0048	*	0.0048	0.0018	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	01/15/20 16:50	01/24/20 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*01/15/20 16:50*	*01/24/20 12:30*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*01/15/20 16:50*	*01/24/20 12:30*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*01/15/20 16:50*	*01/24/20 12:30*	*1*
Toluene-d8 (Surr)	*92*		*75 - 124*	*01/15/20 16:50*	*01/24/20 12:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1

Client Sample ID: 2900V-45-B01
Date Collected: 01/14/20 09:15
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-1
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39	F1	0.39	0.090	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
2,4-Dinitrophenol	<0.79	F1	0.79	0.69	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
2,4-Dinitrotoluene	<0.20	F1	0.20	0.062	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
2,6-Dinitrotoluene	<0.20	F1	0.20	0.077	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
2-Chloronaphthalene	<0.20	F1	0.20	0.043	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
2-Chlorophenol	<0.20	F1	0.20	0.067	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
2-Methylphenol	<0.20	F1	0.20	0.063	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
2-Nitroaniline	<0.20	F1 *	0.20	0.053	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
3 & 4 Methylphenol	<0.20	F1	0.20	0.066	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
3,3'-Dichlorobenzidine	<0.20	F1 *	0.20	0.055	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
3-Nitroaniline	<0.39	F1 *	0.39	0.12	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
4-Bromophenyl phenyl ether	<0.20	F1	0.20	0.052	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
4-Chloro-3-methylphenol	<0.39	F1	0.39	0.13	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
4-Chlorophenyl phenyl ether	<0.20	F1	0.20	0.046	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
4-Nitroaniline	<0.39	F1	0.39	0.16	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
4-Nitrophenol	<0.79	F1	0.79	0.37	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Acenaphthene	<0.039	F1	0.039	0.0071	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Acenaphthylene	<0.039	F1	0.039	0.0052	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Anthracene	<0.039	F1	0.039	0.0066	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Bis(2-chloroethoxy)methane	<0.20	F1	0.20	0.040	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Bis(2-chloroethyl)ether	<0.20	F1	0.20	0.059	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Carbazole	<0.20	F1 *	0.20	0.098	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Dibenzofuran	<0.20	F1	0.20	0.046	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Diethyl phthalate	<0.20	F1	0.20	0.067	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Dimethyl phthalate	<0.20	F1	0.20	0.051	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Di-n-butyl phthalate	<0.20	F1	0.20	0.060	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Di-n-octyl phthalate	<0.20	F1	0.20	0.064	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Fluoranthene	<0.039	F1	0.039	0.0073	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Fluorene	<0.039	F1	0.039	0.0055	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Hexachlorobenzene	<0.079	F1	0.079	0.0091	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Hexachlorobutadiene	<0.20	F1	0.20	0.062	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Hexachloroethane	<0.20	F1	0.20	0.060	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-1

Client Sample ID: 2900V-45-B01
Date Collected: 01/14/20 09:15
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-1
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039	F1	0.039	0.010	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Isophorone	<0.20	F1 *	0.20	0.044	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Naphthalene	<0.039	F1	0.039	0.0060	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Nitrobenzene	<0.039	F1 *	0.039	0.0098	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
N-Nitrosodi-n-propylamine	<0.079	F1	0.079	0.048	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
N-Nitrosodiphenylamine	<0.20	F1 *	0.20	0.046	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Phenol	<0.20	F1	0.20	0.087	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	01/24/20 08:07	01/25/20 05:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*136*		*31 - 143*	*01/24/20 08:07*	*01/25/20 05:04*	*1*
2-Fluorobiphenyl	*116*		*43 - 145*	*01/24/20 08:07*	*01/25/20 05:04*	*1*
2-Fluorophenol	*109*		*31 - 166*	*01/24/20 08:07*	*01/25/20 05:04*	*1*
Nitrobenzene-d5	*123*		*37 - 147*	*01/24/20 08:07*	*01/25/20 05:04*	*1*
Phenol-d5	*128*		*30 - 153*	*01/24/20 08:07*	*01/25/20 05:04*	*1*
Terphenyl-d14	*151*		*42 - 157*	*01/24/20 08:07*	*01/25/20 05:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.38**	**J F1**	1.2	0.23	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Arsenic	**5.9**		0.59	0.20	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Barium	**54**		0.59	0.067	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Beryllium	**0.85**		0.24	0.055	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Boron	**15**		3.0	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Cadmium	**0.18**		0.12	0.021	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Calcium	**67000**		120	20	mg/Kg	☼	01/22/20 06:55	01/23/20 12:30	10
Chromium	**18**		0.59	0.29	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Cobalt	**11**		0.30	0.077	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Copper	**15**		0.59	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Iron	**17000**		12	6.1	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Lead	**12**		0.30	0.14	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Magnesium	**21000**		5.9	2.9	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Manganese	**320**		0.59	0.086	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Nickel	**30**		0.59	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Potassium	**3400**		30	10	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Selenium	<0.59	F1	0.59	0.35	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Silver	**3.0**		0.30	0.076	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Sodium	**510**		59	8.7	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Vanadium	**23**		0.30	0.070	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1
Zinc	**50**	**F1**	1.2	0.52	mg/Kg	☼	01/22/20 06:55	01/22/20 21:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/23/20 16:00	01/24/20 10:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/23/20 16:00	01/24/20 10:46	1
Chromium	<0.025		0.025	0.010	mg/L		01/23/20 16:00	01/24/20 10:46	1
Iron	<0.40		0.40	0.20	mg/L		01/23/20 16:00	01/24/20 10:46	1

Client Sample ID: 2900V-45-B01
Date Collected: 01/14/20 09:15
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-1
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.011		0.0075	0.0075	mg/L		01/23/20 16:00	01/24/20 10:46	1
Manganese	2.6		0.025	0.010	mg/L		01/23/20 16:00	01/24/20 10:46	1
Nickel	0.018	J	0.025	0.010	mg/L		01/23/20 16:00	01/24/20 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.065		0.050	0.010	mg/L		01/23/20 15:57	01/24/20 11:03	1
Barium	0.50		0.50	0.050	mg/L		01/23/20 15:57	01/24/20 11:03	1
Beryllium	0.0083		0.0040	0.0040	mg/L		01/23/20 15:57	01/24/20 11:03	1
Boron	0.21		0.10	0.050	mg/L		01/23/20 15:57	01/24/20 11:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/23/20 15:57	01/24/20 11:03	1
Calcium	62		2.5	0.50	mg/L		01/23/20 15:57	01/24/20 11:03	1
Chromium	0.15		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:03	1
Cobalt	0.039		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:03	1
Iron	150		0.40	0.20	mg/L		01/23/20 15:57	01/24/20 11:03	1
Lead	0.067		0.0075	0.0075	mg/L		01/23/20 15:57	01/24/20 11:03	1
Manganese	0.67		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:03	1
Nickel	0.17		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:03	1
Potassium	30		2.5	0.50	mg/L		01/23/20 15:57	01/24/20 11:03	1
Selenium	<0.050		0.050	0.020	mg/L		01/23/20 15:57	01/24/20 11:03	1
Silver	0.012	J	0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:03	1
Zinc	0.46	J	0.50	0.020	mg/L		01/23/20 15:57	01/24/20 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/23/20 16:00	01/24/20 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/23/20 15:57	01/24/20 13:07	1
Thallium	0.0025		0.0020	0.0020	mg/L		01/23/20 15:57	01/24/20 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00076		0.00020	0.00020	mg/L		01/27/20 14:55	01/28/20 10:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J B	0.019	0.0063	mg/Kg	☼	01/22/20 14:10	01/24/20 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.28	mg/Kg	☼	01/22/20 13:00	01/22/20 15:13	1
pH	8.6		0.2	0.2	SU			01/21/20 17:09	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
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 is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-1

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-1

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-1

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-1

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

Client Contact

Andrews Engineering, In
3300 Ginger Creek Drive
Springfield, IL 62711
217-787-2334 500-176325 COC
Contact: Colleen Grey
email: cgrey@andrews-eng.com

Laboratory

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

Project Name: AE7-32A
Project No.: PTB/UO:184-006/32A
TAT: ☒ 5 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ___ Other
Sampler: Chad Nelson

COC No.: 1 of 1
Lab Job No.: 500-176325
Sample Temp: 5.4, 2.9, 1.6, 5.6

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.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
1	B900V-45-1301	1/14	0915	S	X	X					X	X	X	X	X					

Relinquished by:		Date/Time 1/14 1510	Received by:	Date/Time 1/14/20 1570
Relinquished by:		Date/Time	Received by:	Date/Time
Relinquished by:		Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
2186 East Glenwood Dyer Road

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52596 (Decimal Degrees) Longitude: -87.56389 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 195

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52596 Longitude: - 87.56389

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 2900V-46-B01 AND 2900V-46-B02 WERE SAMPLED ADJACENT TO SITE 2900V-46. SEE TABLE 3ab AND FIGURE 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176325-2.

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 20, 2020
Date:

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

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-46
Residence

Sample ID	2900V-46-B01	2900V-46-B01 DUP	2900V-46-B02	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-3	0-3	0-3					
Sample Date	1/14/2020	1/14/2020	1/14/2020					
PID	0	0	0					
Sample pH	7.4	7.2	7.9	[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
Matrix	Soil	Soil	Soil					
No Contaminants of Concern Noted.								

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176325-2
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/29/2020 4:25:47 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-2

Client Sample ID: 2900V-46-B01
Date Collected: 01/14/20 09:00
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-2
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Acetone	**0.035**		0.017	0.0075	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	01/15/20 16:50	01/24/20 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*01/15/20 16:50*	*01/24/20 12:56*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*01/15/20 16:50*	*01/24/20 12:56*	*1*
Dibromofluoromethane	*96*		*75 - 126*	*01/15/20 16:50*	*01/24/20 12:56*	*1*
Toluene-d8 (Surr)	*93*		*75 - 124*	*01/15/20 16:50*	*01/24/20 12:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1

Client Sample ID: 2900V-46-B01
Date Collected: 01/14/20 09:00
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-2
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
2-Methylnaphthalene	<0.077		0.077	0.0071	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
2-Nitroaniline	<0.19	*	0.19	0.052	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
3,3'-Dichlorobenzidine	<0.19	*	0.19	0.054	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
3-Nitroaniline	<0.38	*	0.38	0.12	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Carbazole	<0.19	*	0.19	0.096	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Diethyl phthalate	**0.075**	**J**	0.19	0.065	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-2

Client Sample ID: 2900V-46-B01
Date Collected: 01/14/20 09:00
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-2
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Isophorone	<0.19	*	0.19	0.043	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Nitrobenzene	<0.038	*	0.038	0.0096	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.045	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	01/24/20 08:07	01/25/20 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*111*		*31 - 143*	*01/24/20 08:07*	*01/25/20 02:58*	*1*
2-Fluorobiphenyl	*102*		*43 - 145*	*01/24/20 08:07*	*01/25/20 02:58*	*1*
2-Fluorophenol	*101*		*31 - 166*	*01/24/20 08:07*	*01/25/20 02:58*	*1*
Nitrobenzene-d5	*120*		*37 - 147*	*01/24/20 08:07*	*01/25/20 02:58*	*1*
Phenol-d5	*118*		*30 - 153*	*01/24/20 08:07*	*01/25/20 02:58*	*1*
Terphenyl-d14	*137*		*42 - 157*	*01/24/20 08:07*	*01/25/20 02:58*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.49**	**J**	1.1	0.22	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Arsenic	**6.4**		0.57	0.20	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Barium	**50**		0.57	0.065	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Beryllium	**0.81**		0.23	0.053	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Boron	**14**		2.9	0.27	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Cadmium	**0.18**		0.11	0.021	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Calcium	**75000**		110	19	mg/Kg	☼	01/22/20 06:55	01/23/20 12:51	10
Chromium	**17**		0.57	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Cobalt	**12**		0.29	0.075	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Copper	**15**		0.57	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Iron	**17000**		11	5.9	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Lead	**12**		0.29	0.13	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Magnesium	**21000**		5.7	2.8	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Manganese	**290**		0.57	0.083	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Nickel	**29**		0.57	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Potassium	**2900**		29	10	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Silver	**2.8**		0.29	0.074	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Sodium	**390**		57	8.5	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Vanadium	**21**		0.29	0.068	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1
Zinc	**51**		1.1	0.50	mg/Kg	☼	01/22/20 06:55	01/22/20 21:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/23/20 16:00	01/24/20 10:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/23/20 16:00	01/24/20 10:51	1
Chromium	<0.025		0.025	0.010	mg/L		01/23/20 16:00	01/24/20 10:51	1
Iron	<0.40		0.40	0.20	mg/L		01/23/20 16:00	01/24/20 10:51	1

Client Sample ID: 2900V-46-B01 **Lab Sample ID: 500-176325-2**
Date Collected: 01/14/20 09:00 **Matrix: Solid**
Date Received: 01/14/20 15:10 **Percent Solids: 85.7**

Method: 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		01/23/20 16:00	01/24/20 10:51	1
Manganese	2.4		0.025	0.010	mg/L		01/23/20 16:00	01/24/20 10:51	1
Nickel	0.018	J	0.025	0.010	mg/L		01/23/20 16:00	01/24/20 10:51	1

Method: 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		01/23/20 15:57	01/24/20 11:07	1
Barium	0.46	J	0.50	0.050	mg/L		01/23/20 15:57	01/24/20 11:07	1
Beryllium	0.0077		0.0040	0.0040	mg/L		01/23/20 15:57	01/24/20 11:07	1
Boron	0.18		0.10	0.050	mg/L		01/23/20 15:57	01/24/20 11:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/23/20 15:57	01/24/20 11:07	1
Calcium	62		2.5	0.50	mg/L		01/23/20 15:57	01/24/20 11:07	1
Chromium	0.13		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:07	1
Cobalt	0.034		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:07	1
Iron	130		0.40	0.20	mg/L		01/23/20 15:57	01/24/20 11:07	1
Lead	0.060		0.0075	0.0075	mg/L		01/23/20 15:57	01/24/20 11:07	1
Manganese	0.55		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:07	1
Nickel	0.15		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:07	1
Potassium	29		2.5	0.50	mg/L		01/23/20 15:57	01/24/20 11:07	1
Selenium	<0.050		0.050	0.020	mg/L		01/23/20 15:57	01/24/20 11:07	1
Silver	<0.025		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:07	1
Zinc	0.33	J	0.50	0.020	mg/L		01/23/20 15:57	01/24/20 11:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/23/20 16:00	01/24/20 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/23/20 15:57	01/24/20 13:09	1
Thallium	0.0026		0.0020	0.0020	mg/L		01/23/20 15:57	01/24/20 13:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00077		0.00020	0.00020	mg/L		01/27/20 14:55	01/28/20 10:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0062	mg/Kg	☼	01/22/20 14:10	01/24/20 10:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.41		0.41	0.21	mg/Kg	☼	01/22/20 13:00	01/22/20 15:13	1
pH	7.4		0.2	0.2	SU			01/21/20 17:14	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-2

Client Sample ID: 2900V-46-B01 Dup
Date Collected: 01/14/20 09:05
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-3
Matrix: Solid
Percent Solids: 85.0

Method: 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	☼	01/15/20 16:50	01/24/20 13:21	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	01/15/20 16:50	01/24/20 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*01/15/20 16:50*	*01/24/20 13:21*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*01/15/20 16:50*	*01/24/20 13:21*	*1*
Dibromofluoromethane	*96*		*75 - 126*	*01/15/20 16:50*	*01/24/20 13:21*	*1*
Toluene-d8 (Surr)	*91*		*75 - 124*	*01/15/20 16:50*	*01/24/20 13:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1

Client Sample ID: 2900V-46-B01 Dup
Date Collected: 01/14/20 09:05
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-3
Matrix: Solid
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
2-Nitroaniline	<0.19	*	0.19	0.052	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
3,3'-Dichlorobenzidine	<0.19	*	0.19	0.054	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
3-Nitroaniline	<0.38	*	0.38	0.12	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Carbazole	<0.19	*	0.19	0.097	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1

Client Sample ID: 2900V-46-B01 Dup

Date Collected: 01/14/20 09:05
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-3

Matrix: Solid
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Isophorone	<0.19	*	0.19	0.043	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Nitrobenzene	<0.038	*	0.038	0.0097	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.046	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	01/24/20 08:07	01/25/20 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*116*		*31 - 143*	*01/24/20 08:07*	*01/25/20 03:23*	*1*
2-Fluorobiphenyl	*110*		*43 - 145*	*01/24/20 08:07*	*01/25/20 03:23*	*1*
2-Fluorophenol	*103*		*31 - 166*	*01/24/20 08:07*	*01/25/20 03:23*	*1*
Nitrobenzene-d5	*129*		*37 - 147*	*01/24/20 08:07*	*01/25/20 03:23*	*1*
Phenol-d5	*119*		*30 - 153*	*01/24/20 08:07*	*01/25/20 03:23*	*1*
Terphenyl-d14	*137*		*42 - 157*	*01/24/20 08:07*	*01/25/20 03:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.66**	**J**	1.1	0.22	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Arsenic	**6.6**		0.57	0.20	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Barium	**52**		0.57	0.065	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Beryllium	**0.80**		0.23	0.053	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Boron	**13**		2.9	0.27	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Cadmium	**0.18**		0.11	0.021	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Calcium	**73000**		110	19	mg/Kg	☼	01/22/20 06:55	01/23/20 12:56	10
Chromium	**17**		0.57	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Cobalt	**13**		0.29	0.075	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Copper	**17**		0.57	0.16	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Iron	**17000**		11	6.0	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Lead	**12**		0.29	0.13	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Magnesium	**21000**		5.7	2.8	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Manganese	**330**		0.57	0.083	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Nickel	**32**		0.57	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Potassium	**2700**		29	10	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Silver	**2.8**		0.29	0.074	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Sodium	**400**		57	8.5	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Thallium	**0.33**	**J**	0.57	0.29	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Vanadium	**21**		0.29	0.068	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1
Zinc	**52**		1.1	0.50	mg/Kg	☼	01/22/20 06:55	01/22/20 21:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/23/20 16:00	01/24/20 10:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/23/20 16:00	01/24/20 10:55	1
Chromium	<0.025		0.025	0.010	mg/L		01/23/20 16:00	01/24/20 10:55	1
Iron	<0.40		0.40	0.20	mg/L		01/23/20 16:00	01/24/20 10:55	1

Client Sample ID: 2900V-46-B01 Dup

Date Collected: 01/14/20 09:05
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-3

Matrix: Solid
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0085		0.0075	0.0075	mg/L		01/23/20 16:00	01/24/20 10:55	1
Manganese	2.5		0.025	0.010	mg/L		01/23/20 16:00	01/24/20 10:55	1
Nickel	0.020	J	0.025	0.010	mg/L		01/23/20 16:00	01/24/20 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.064		0.050	0.010	mg/L		01/23/20 15:57	01/24/20 11:11	1
Barium	0.50		0.50	0.050	mg/L		01/23/20 15:57	01/24/20 11:11	1
Beryllium	0.0079		0.0040	0.0040	mg/L		01/23/20 15:57	01/24/20 11:11	1
Boron	0.20		0.10	0.050	mg/L		01/23/20 15:57	01/24/20 11:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/23/20 15:57	01/24/20 11:11	1
Calcium	57		2.5	0.50	mg/L		01/23/20 15:57	01/24/20 11:11	1
Chromium	0.15		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:11	1
Cobalt	0.035		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:11	1
Iron	140		0.40	0.20	mg/L		01/23/20 15:57	01/24/20 11:11	1
Lead	0.062		0.0075	0.0075	mg/L		01/23/20 15:57	01/24/20 11:11	1
Manganese	0.55		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:11	1
Nickel	0.16		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:11	1
Potassium	31		2.5	0.50	mg/L		01/23/20 15:57	01/24/20 11:11	1
Selenium	<0.050		0.050	0.020	mg/L		01/23/20 15:57	01/24/20 11:11	1
Silver	<0.025		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:11	1
Zinc	0.45	J	0.50	0.020	mg/L		01/23/20 15:57	01/24/20 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/23/20 16:00	01/24/20 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/23/20 15:57	01/24/20 13:11	1
Thallium	0.0029		0.0020	0.0020	mg/L		01/23/20 15:57	01/24/20 13:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00051		0.00020	0.00020	mg/L		01/27/20 14:55	01/28/20 10:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0084	J B	0.019	0.0063	mg/Kg	☼	01/22/20 14:10	01/24/20 10:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.28	mg/Kg	☼	01/22/20 13:00	01/22/20 15:14	1
pH	7.2		0.2	0.2	SU			01/21/20 17:19	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-2

Client Sample ID: 2900V-46-B02
Date Collected: 01/14/20 09:10
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-4
Matrix: Solid
Percent Solids: 81.3

Method: 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	☼	01/15/20 16:50	01/24/20 13:47	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00058	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Acetone	**0.0099**	**J**	0.016	0.0071	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Carbon tetrachloride	<0.0016		0.0016	0.00048	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Dibromochloromethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00073	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00058	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Vinyl chloride	<0.0016		0.0016	0.00073	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	01/15/20 16:50	01/24/20 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*	*01/15/20 16:50*	*01/24/20 13:47*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*01/15/20 16:50*	*01/24/20 13:47*	*1*
Dibromofluoromethane	*94*		*75 - 126*	*01/15/20 16:50*	*01/24/20 13:47*	*1*
Toluene-d8 (Surr)	*92*		*75 - 124*	*01/15/20 16:50*	*01/24/20 13:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-2

Client Sample ID: 2900V-46-B02
Date Collected: 01/14/20 09:10
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-4
Matrix: Solid
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
2-Nitroaniline	<0.20	*	0.20	0.054	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
3,3'-Dichlorobenzidine	<0.20	*	0.20	0.056	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
3-Nitroaniline	<0.40	*	0.40	0.12	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Carbazole	<0.20	*	0.20	0.10	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-2

Client Sample ID: 2900V-46-B02
Date Collected: 01/14/20 09:10
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-4
Matrix: Solid
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Isophorone	<0.20	*	0.20	0.045	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Nitrobenzene	<0.040	*	0.040	0.010	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.048	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	01/24/20 08:07	01/25/20 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*130*		*31 - 143*	*01/24/20 08:07*	*01/25/20 03:48*	*1*
2-Fluorobiphenyl	*109*		*43 - 145*	*01/24/20 08:07*	*01/25/20 03:48*	*1*
2-Fluorophenol	*109*		*31 - 166*	*01/24/20 08:07*	*01/25/20 03:48*	*1*
Nitrobenzene-d5	*127*		*37 - 147*	*01/24/20 08:07*	*01/25/20 03:48*	*1*
Phenol-d5	*129*		*30 - 153*	*01/24/20 08:07*	*01/25/20 03:48*	*1*
Terphenyl-d14	*142*		*42 - 157*	*01/24/20 08:07*	*01/25/20 03:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.51**	**J**	1.2	0.23	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Arsenic	**8.3**		0.60	0.21	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Barium	**73**		0.60	0.069	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Beryllium	**1.1**		0.24	0.056	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Boron	**17**		3.0	0.28	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Cadmium	**0.14**		0.12	0.022	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Calcium	**24000**		12	2.0	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Chromium	**24**		0.60	0.30	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Cobalt	**16**		0.30	0.079	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Copper	**20**		0.60	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Iron	**22000**		12	6.3	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Lead	**16**		0.30	0.14	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Magnesium	**14000**		6.0	3.0	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Manganese	**400**		0.60	0.088	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Nickel	**40**		0.60	0.18	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Potassium	**3600**		30	11	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Selenium	<0.60		0.60	0.36	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Silver	**3.9**		0.30	0.078	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Sodium	**610**		60	8.9	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Vanadium	**31**		0.30	0.071	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1
Zinc	**61**		1.2	0.53	mg/Kg	☼	01/22/20 06:55	01/22/20 21:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/23/20 16:00	01/24/20 11:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/23/20 16:00	01/24/20 11:08	1
Chromium	<0.025		0.025	0.010	mg/L		01/23/20 16:00	01/24/20 11:08	1
Iron	<0.40		0.40	0.20	mg/L		01/23/20 16:00	01/24/20 11:08	1

Client Sample ID: 2900V-46-B02 **Lab Sample ID: 500-176325-4**
Date Collected: 01/14/20 09:10 **Matrix: Solid**
Date Received: 01/14/20 15:10 **Percent Solids: 81.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/23/20 16:00	01/24/20 11:08	1
Manganese	**2.8**		0.025	0.010	mg/L		01/23/20 16:00	01/24/20 11:08	1
Nickel	**0.020**	**J**	0.025	0.010	mg/L		01/23/20 16:00	01/24/20 11:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.072**		0.050	0.010	mg/L		01/23/20 15:57	01/24/20 11:15	1
Barium	**0.63**		0.50	0.050	mg/L		01/23/20 15:57	01/24/20 11:15	1
Beryllium	**0.0099**		0.0040	0.0040	mg/L		01/23/20 15:57	01/24/20 11:15	1
Boron	**0.23**		0.10	0.050	mg/L		01/23/20 15:57	01/24/20 11:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/23/20 15:57	01/24/20 11:15	1
Calcium	**44**		2.5	0.50	mg/L		01/23/20 15:57	01/24/20 11:15	1
Chromium	**0.19**		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:15	1
Cobalt	**0.040**		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:15	1
Iron	**180**		0.40	0.20	mg/L		01/23/20 15:57	01/24/20 11:15	1
Lead	**0.070**		0.0075	0.0075	mg/L		01/23/20 15:57	01/24/20 11:15	1
Manganese	**0.63**		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:15	1
Nickel	**0.20**		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:15	1
Potassium	**35**		2.5	0.50	mg/L		01/23/20 15:57	01/24/20 11:15	1
Selenium	<0.050		0.050	0.020	mg/L		01/23/20 15:57	01/24/20 11:15	1
Silver	**0.014**	**J**	0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:15	1
Zinc	**0.38**	**J**	0.50	0.020	mg/L		01/23/20 15:57	01/24/20 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/23/20 16:00	01/24/20 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/23/20 15:57	01/24/20 13:13	1
Thallium	**0.0025**		0.0020	0.0020	mg/L		01/23/20 15:57	01/24/20 13:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00057**		0.00020	0.00020	mg/L		01/27/20 14:55	01/28/20 10:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**	**B**	0.019	0.0063	mg/Kg	☼	01/22/20 14:10	01/24/20 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.30	mg/Kg	☼	01/22/20 13:00	01/22/20 15:14	1
pH	**7.9**		0.2	0.2	SU			01/21/20 17:23	1

Definitions/Glossary

Client: Andrews Engineering Inc. Job ID: 500-176325-2
Project/Site: IDOT - AE7-032

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc. Job ID: 500-176325-2
Project/Site: IDOT - AE7-032

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-2

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-2

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-2

Laboratory: Eurofins TestAmerica, Chicago (Continued)

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING

Client Contact	Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: AE7-32A Project No.: PTB/WO:184-006/32A TAT: ☒ 5 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other Chad Nelson **Sampler:**

COC No.: 1 of 1

Lab Job No.: 500-176325

Sample Temp: 5.4, 4.9, 4.9, 5.6

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.

Matrix Key:

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	*** Cyanide	pH	% Solids	Waste Characterization				Comments
2	SB900V-46-B01	1/14	0900	S	X	X					X	X	X	X	X					
3	SB900V-46-B01 DUP	"	0905	"	↓	↓					↓	↓	↓	↓	↓					
4	SB900V-46-B02	"	0910	↓	↓	↓					↓	↓	↓	↓	↓					

Relinquished by: Matt Lin	Date/Time 1/14 1510	Received by: Paula Buckley	Date/Time 1/14/20 1510
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3630 (Glenwood Dyer Road) Office Phone Number, if available:

Physical Site Location (address, including number and street):
20350-20361 Camelot Lane & 20375 Tyler Drive (southwest and southeast corners of Glenwood Dyer Rd and Camelot Lane)

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.52564 (Decimal Degrees) Longitude: -87.56379 (-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): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 717

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.

Project Name: FAU 3630 (Glenwood Dyer Road) Latitude: 41.52564 Longitude: - 87.56379

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 2900V-47-B01 AND 2900V-47-B02 WERE SAMPLED ADJACENT TO SITE 2900V-47. SEE TABLE 3ac AND FIGURE 5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

EUROFINS/TEST AMERICA ANALYTICAL REPORT - TEST AMERICA JOB ID NUMBER: 500-176325-3.

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 20, 2020
Date:

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

- Only parameters reported at concentrations above the most stringent MAC are listed.

- Samples with the notation **“No Contaminants of Concern Noted”** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl acetate
Vinyl chloride
Xylenes, total
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

Semivolatile Organic Compounds (mg/kg)
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

ANALYTICAL PARAMETERS

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

ISGS Site 2900V-47
Residence

Sample ID	2900V-47-B01	2900V-47-B02	**Maximum Allowable Concentration**				
Sample Depth (ft)	0-7	0-7					
Sample Date	1/14/2020	1/14/2020	[1] Most Stringent	[2] Outside a Populated Area	[3] Within a Populated non-Metropolitan Statistical Area	[4] Within Chicago Corporate Limits	[5] Within a Metropolitan Statistical Area
PID	0	0					
Sample pH	6.9	7					
Matrix	Soil	Soil					
No Contaminants of Concern Noted.							

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-176325-3
Client Project/Site: IDOT - AE7-032

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

Attn: Ms. Colleen Grey

Authorized for release by:
1/29/2020 4:27:49 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: 2900V-47-B01 **Lab Sample ID: 500-176325-5**
Date Collected: 01/14/20 13:20 **Matrix: Solid**
Date Received: 01/14/20 15:10 **Percent Solids: 75.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
2-Butanone (MEK)	**0.0053**		0.0049	0.0022	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0015	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Acetone	**0.026**		0.020	0.0086	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Chloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1
Xylenes, Total	<0.0040		0.0040	0.00063	mg/Kg	☼	01/15/20 16:50	01/24/20 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*01/15/20 16:50*	*01/24/20 14:13*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*01/15/20 16:50*	*01/24/20 14:13*	*1*
Dibromofluoromethane	*96*		*75 - 126*	*01/15/20 16:50*	*01/24/20 14:13*	*1*
Toluene-d8 (Surr)	*92*		*75 - 124*	*01/15/20 16:50*	*01/24/20 14:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
1,2-Dichlorobenzene	<0.22		0.22	0.051	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
1,3-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1

Client Sample ID: 2900V-47-B01
Date Collected: 01/14/20 13:20
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-5
Matrix: Solid
Percent Solids: 75.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
2,6-Dinitrotoluene	<0.22		0.22	0.084	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
2-Chloronaphthalene	<0.22		0.22	0.047	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
2-Chlorophenol	<0.22		0.22	0.073	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
2-Methylnaphthalene	<0.086		0.086	0.0079	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
2-Nitroaniline	<0.22	*	0.22	0.058	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
3 & 4 Methylphenol	<0.22		0.22	0.071	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
3,3'-Dichlorobenzidine	<0.22	*	0.22	0.060	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
3-Nitroaniline	<0.43	*	0.43	0.13	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.056	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
4-Nitrophenol	<0.86		0.86	0.41	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Acenaphthene	<0.043		0.043	0.0077	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Acenaphthylene	<0.043		0.043	0.0056	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Benzo[a]anthracene	**0.0078**	**J**	0.043	0.0058	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Benzo[a]pyrene	**0.015**	**J**	0.043	0.0083	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Benzo[b]fluoranthene	**0.016**	**J**	0.043	0.0092	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Benzo[k]fluoranthene	<0.043		0.043	0.013	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.078	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Butyl benzyl phthalate	<0.22		0.22	0.081	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Carbazole	<0.22	*	0.22	0.11	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Chrysene	<0.043		0.043	0.012	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0083	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Dibenzofuran	<0.22		0.22	0.050	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Di-n-butyl phthalate	<0.22		0.22	0.065	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Fluoranthene	**0.015**	**J**	0.043	0.0079	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Fluorene	<0.043		0.043	0.0060	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Hexachlorobenzene	<0.086		0.086	0.0099	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Hexachlorobutadiene	<0.22		0.22	0.067	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Hexachlorocyclopentadiene	<0.86		0.86	0.25	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Hexachloroethane	<0.22		0.22	0.065	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-3

Client Sample ID: 2900V-47-B01
Date Collected: 01/14/20 13:20
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-5
Matrix: Solid
Percent Solids: 75.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.013	J	0.043	0.011	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Isophorone	<0.22	*	0.22	0.048	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Nitrobenzene	<0.043	*	0.043	0.011	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
N-Nitrosodiphenylamine	<0.22	*	0.22	0.051	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Pentachlorophenol	<0.86		0.86	0.69	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Phenanthrene	<0.043		0.043	0.0060	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Phenol	<0.22		0.22	0.095	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1
Pyrene	0.011	J	0.043	0.0085	mg/Kg	☼	01/24/20 08:07	01/25/20 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*125*		*31 - 143*	*01/24/20 08:07*	*01/25/20 04:14*	*1*
2-Fluorobiphenyl	*95*		*43 - 145*	*01/24/20 08:07*	*01/25/20 04:14*	*1*
2-Fluorophenol	*91*		*31 - 166*	*01/24/20 08:07*	*01/25/20 04:14*	*1*
Nitrobenzene-d5	*99*		*37 - 147*	*01/24/20 08:07*	*01/25/20 04:14*	*1*
Phenol-d5	*110*		*30 - 153*	*01/24/20 08:07*	*01/25/20 04:14*	*1*
Terphenyl-d14	*123*		*42 - 157*	*01/24/20 08:07*	*01/25/20 04:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.2	0.24	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Arsenic	10		0.62	0.21	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Barium	120		0.62	0.071	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Beryllium	1.1		0.25	0.058	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Boron	8.1		3.1	0.29	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Cadmium	0.20		0.12	0.022	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Calcium	2600		12	2.1	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Chromium	23		0.62	0.31	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Cobalt	15		0.31	0.082	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Copper	18		0.62	0.17	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Iron	26000		12	6.5	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Lead	15		0.31	0.14	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Magnesium	4500		6.2	3.1	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Manganese	350		0.62	0.090	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Nickel	43		0.62	0.18	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Potassium	2200		31	11	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Selenium	<0.62		0.62	0.37	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Silver	4.4		0.31	0.080	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Sodium	1800		62	9.2	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Vanadium	31		0.31	0.074	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1
Zinc	70		1.2	0.55	mg/Kg	☼	01/22/20 06:55	01/22/20 21:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/23/20 16:00	01/24/20 10:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/23/20 16:00	01/24/20 10:20	1
Chromium	<0.025		0.025	0.010	mg/L		01/23/20 16:00	01/24/20 10:20	1
Iron	<0.40		0.40	0.20	mg/L		01/23/20 16:00	01/24/20 10:20	1

Client Sample ID: 2900V-47-B01 **Lab Sample ID: 500-176325-5**
Date Collected: 01/14/20 13:20 **Matrix: Solid**
Date Received: 01/14/20 15:10 **Percent Solids: 75.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/23/20 16:00	01/24/20 10:20	1
Manganese	**2.2**		0.025	0.010	mg/L		01/23/20 16:00	01/24/20 10:20	1
Nickel	<0.025		0.025	0.010	mg/L		01/23/20 16:00	01/24/20 10:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.052**		0.050	0.010	mg/L		01/23/20 15:57	01/24/20 11:19	1
Barium	**1.0**		0.50	0.050	mg/L		01/23/20 15:57	01/24/20 11:19	1
Beryllium	**0.012**		0.0040	0.0040	mg/L		01/23/20 15:57	01/24/20 11:19	1
Boron	**0.13**		0.10	0.050	mg/L		01/23/20 15:57	01/24/20 11:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/23/20 15:57	01/24/20 11:19	1
Calcium	**25**		2.5	0.50	mg/L		01/23/20 15:57	01/24/20 11:19	1
Chromium	**0.22**		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:19	1
Cobalt	**0.058**		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:19	1
Iron	**220**		0.40	0.20	mg/L		01/23/20 15:57	01/24/20 11:19	1
Lead	**0.095**		0.0075	0.0075	mg/L		01/23/20 15:57	01/24/20 11:19	1
Manganese	**0.88**		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:19	1
Nickel	**0.20**		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:19	1
Potassium	**23**		2.5	0.50	mg/L		01/23/20 15:57	01/24/20 11:19	1
Selenium	<0.050		0.050	0.020	mg/L		01/23/20 15:57	01/24/20 11:19	1
Silver	**0.017**	**J**	0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:19	1
Zinc	**0.57**		0.50	0.020	mg/L		01/23/20 15:57	01/24/20 11:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/23/20 16:00	01/24/20 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		01/23/20 15:57	01/24/20 13:20	1
Thallium	**0.0028**		0.0020	0.0020	mg/L		01/23/20 15:57	01/24/20 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0013**		0.00033	0.00033	mg/L		01/27/20 14:55	01/28/20 10:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.031**	**B**	0.021	0.0071	mg/Kg	☼	01/22/20 14:10	01/24/20 10:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.30	mg/Kg	☼	01/22/20 13:00	01/22/20 15:15	1
pH	**6.9**		0.2	0.2	SU			01/21/20 17:28	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-3

Client Sample ID: 2900V-47-B02
Date Collected: 01/14/20 13:30
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-6
Matrix: Solid
Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
2-Butanone (MEK)	**0.0059**		0.0047	0.0021	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Acetone	**0.029**		0.019	0.0082	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	01/15/20 16:50	01/24/20 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*	*01/15/20 16:50*	*01/24/20 14:38*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*01/15/20 16:50*	*01/24/20 14:38*	*1*
Dibromofluoromethane	*96*		*75 - 126*	*01/15/20 16:50*	*01/24/20 14:38*	*1*
Toluene-d8 (Surr)	*93*		*75 - 124*	*01/15/20 16:50*	*01/24/20 14:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1

Client Sample ID: 2900V-47-B02
Date Collected: 01/14/20 13:30
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-6
Matrix: Solid
Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
2-Methylnaphthalene	<0.085		0.085	0.0077	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
2-Nitroaniline	<0.21	*	0.21	0.057	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
3,3'-Dichlorobenzidine	<0.21	*	0.21	0.059	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
3-Nitroaniline	<0.42	*	0.42	0.13	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
4-Nitrophenol	<0.85		0.85	0.40	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Acenaphthene	<0.042		0.042	0.0075	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Benzo[a]anthracene	**0.026**	**J**	0.042	0.0057	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Benzo[a]pyrene	**0.039**	**J**	0.042	0.0081	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Benzo[b]fluoranthene	**0.047**		0.042	0.0091	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Benzo[g,h,i]perylene	**0.024**	**J**	0.042	0.014	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Benzo[k]fluoranthene	**0.012**	**J**	0.042	0.012	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Carbazole	<0.21	*	0.21	0.10	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Chrysene	**0.030**	**J**	0.042	0.011	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Fluoranthene	**0.059**		0.042	0.0078	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Hexachlorobenzene	<0.085		0.085	0.0097	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-3

Client Sample ID: 2900V-47-B02
Date Collected: 01/14/20 13:30
Date Received: 01/14/20 15:10

Lab Sample ID: 500-176325-6
Matrix: Solid
Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.026	J	0.042	0.011	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Isophorone	<0.21	*	0.21	0.047	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Nitrobenzene	<0.042	*	0.042	0.010	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.051	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
N-Nitrosodiphenylamine	<0.21	*	0.21	0.050	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Pentachlorophenol	<0.85		0.85	0.67	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Phenanthrene	0.022	J	0.042	0.0059	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1
Pyrene	0.042		0.042	0.0083	mg/Kg	☼	01/24/20 08:07	01/25/20 04:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*122*		*31 - 143*	*01/24/20 08:07*	*01/25/20 04:39*	*1*
2-Fluorobiphenyl	*115*		*43 - 145*	*01/24/20 08:07*	*01/25/20 04:39*	*1*
2-Fluorophenol	*109*		*31 - 166*	*01/24/20 08:07*	*01/25/20 04:39*	*1*
Nitrobenzene-d5	*129*		*37 - 147*	*01/24/20 08:07*	*01/25/20 04:39*	*1*
Phenol-d5	*136*		*30 - 153*	*01/24/20 08:07*	*01/25/20 04:39*	*1*
Terphenyl-d14	*150*		*42 - 157*	*01/24/20 08:07*	*01/25/20 04:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.3	0.25	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Arsenic	8.5		0.63	0.22	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Barium	53		0.63	0.072	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Beryllium	0.98		0.25	0.059	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Boron	11		3.2	0.29	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Cadmium	0.24		0.13	0.023	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Calcium	11000		13	2.1	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Chromium	21		0.63	0.31	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Cobalt	12		0.32	0.083	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Copper	26		0.63	0.18	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Iron	21000		13	6.6	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Lead	19		0.32	0.15	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Magnesium	8700		6.3	3.1	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Manganese	310		0.63	0.092	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Nickel	36		0.63	0.18	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Potassium	3000		32	11	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Selenium	<0.63		0.63	0.37	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Silver	3.5		0.32	0.082	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Sodium	1200		63	9.4	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Thallium	0.49	J	0.63	0.32	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Vanadium	25		0.32	0.075	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1
Zinc	82		1.3	0.56	mg/Kg	☼	01/22/20 06:55	01/22/20 21:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/23/20 16:00	01/24/20 10:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/23/20 16:00	01/24/20 10:24	1
Chromium	<0.025		0.025	0.010	mg/L		01/23/20 16:00	01/24/20 10:24	1
Iron	<0.40		0.40	0.20	mg/L		01/23/20 16:00	01/24/20 10:24	1

Client Sample ID: 2900V-47-B02 **Lab Sample ID: 500-176325-6**
Date Collected: 01/14/20 13:30 **Matrix: Solid**
Date Received: 01/14/20 15:10 **Percent Solids: 78.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		01/23/20 16:00	01/24/20 10:24	1
Manganese	**2.4**		0.025	0.010	mg/L		01/23/20 16:00	01/24/20 10:24	1
Nickel	**0.017**	**J**	0.025	0.010	mg/L		01/23/20 16:00	01/24/20 10:24	1

Method: 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		01/23/20 15:57	01/24/20 11:31	1
Barium	**0.53**		0.50	0.050	mg/L		01/23/20 15:57	01/24/20 11:31	1
Beryllium	**0.010**		0.0040	0.0040	mg/L		01/23/20 15:57	01/24/20 11:31	1
Boron	**0.19**	**F1**	0.10	0.050	mg/L		01/23/20 15:57	01/24/20 11:31	1
Cadmium	<0.0050	F1	0.0050	0.0020	mg/L		01/23/20 15:57	01/24/20 11:31	1
Calcium	**29**	**F1**	2.5	0.50	mg/L		01/23/20 15:57	01/24/20 11:31	1
Chromium	**0.20**		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:31	1
Cobalt	**0.062**		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:31	1
Iron	**190**		0.40	0.20	mg/L		01/23/20 15:57	01/24/20 11:31	1
Lead	**0.11**		0.0075	0.0075	mg/L		01/23/20 15:57	01/24/20 11:31	1
Manganese	**1.3**		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:31	1
Nickel	**0.24**		0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:31	1
Potassium	**37**	**F1**	2.5	0.50	mg/L		01/23/20 15:57	01/24/20 11:31	1
Selenium	<0.050	F1	0.050	0.020	mg/L		01/23/20 15:57	01/24/20 11:31	1
Silver	**0.016**	**J**	0.025	0.010	mg/L		01/23/20 15:57	01/24/20 11:31	1
Zinc	**0.62**		0.50	0.020	mg/L		01/23/20 15:57	01/24/20 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/23/20 16:00	01/24/20 16:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		01/23/20 15:57	01/24/20 13:22	1
Thallium	**0.0079**		0.0020	0.0020	mg/L		01/23/20 15:57	01/24/20 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0013**		0.00033	0.00033	mg/L		01/27/20 14:55	01/28/20 10:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.064**	**B**	0.019	0.0065	mg/Kg	☼	01/22/20 14:10	01/24/20 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.28	mg/Kg	☼	01/22/20 13:00	01/22/20 15:15	1
pH	**7.0**		0.2	0.2	SU			01/21/20 17:37	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-3

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
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 is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Andrews Engineering Inc. Job ID: 500-176325-3
Project/Site: IDOT - AE7-032

Laboratory: Eurofins TestAmerica, 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	04-30-20

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
6010B	3010A	Solid	Arsenic
6010B	3010A	Solid	Barium
6010B	3010A	Solid	Beryllium
6010B	3010A	Solid	Boron
6010B	3010A	Solid	Cadmium
6010B	3010A	Solid	Calcium
6010B	3010A	Solid	Chromium
6010B	3010A	Solid	Cobalt
6010B	3010A	Solid	Iron
6010B	3010A	Solid	Lead
6010B	3010A	Solid	Manganese
6010B	3010A	Solid	Nickel
6010B	3010A	Solid	Potassium
6010B	3010A	Solid	Selenium
6010B	3010A	Solid	Silver
6010B	3010A	Solid	Zinc
6010B	3050B	Solid	Antimony
6010B	3050B	Solid	Arsenic
6010B	3050B	Solid	Barium
6010B	3050B	Solid	Beryllium
6010B	3050B	Solid	Boron
6010B	3050B	Solid	Cadmium
6010B	3050B	Solid	Calcium
6010B	3050B	Solid	Chromium
6010B	3050B	Solid	Cobalt
6010B	3050B	Solid	Copper
6010B	3050B	Solid	Iron
6010B	3050B	Solid	Lead
6010B	3050B	Solid	Magnesium
6010B	3050B	Solid	Manganese
6010B	3050B	Solid	Nickel
6010B	3050B	Solid	Potassium
6010B	3050B	Solid	Selenium
6010B	3050B	Solid	Silver
6010B	3050B	Solid	Sodium
6010B	3050B	Solid	Thallium
6010B	3050B	Solid	Vanadium
6010B	3050B	Solid	Zinc
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8260B	5035	Solid	1,1,1-Trichloroethane
8260B	5035	Solid	1,1,2,2-Tetrachloroethane
8260B	5035	Solid	1,1,2-Trichloroethane

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-3

Laboratory: Eurofins TestAmerica, Chicago (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8260B	5035	Solid	1,1-Dichloroethane
8260B	5035	Solid	1,1-Dichloroethene
8260B	5035	Solid	1,2-Dichloroethane
8260B	5035	Solid	1,2-Dichloropropane
8260B	5035	Solid	1,3-Dichloropropene, Total
8260B	5035	Solid	2-Butanone (MEK)
8260B	5035	Solid	2-Hexanone
8260B	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260B	5035	Solid	Acetone
8260B	5035	Solid	Benzene
8260B	5035	Solid	Bromodichloromethane
8260B	5035	Solid	Bromoform
8260B	5035	Solid	Bromomethane
8260B	5035	Solid	Carbon disulfide
8260B	5035	Solid	Carbon tetrachloride
8260B	5035	Solid	Chlorobenzene
8260B	5035	Solid	Chloroethane
8260B	5035	Solid	Chloroform
8260B	5035	Solid	Chloromethane
8260B	5035	Solid	cis-1,2-Dichloroethene
8260B	5035	Solid	cis-1,3-Dichloropropene
8260B	5035	Solid	Dibromochloromethane
8260B	5035	Solid	Dibromofluoromethane
8260B	5035	Solid	Ethylbenzene
8260B	5035	Solid	Methyl tert-butyl ether
8260B	5035	Solid	Methylene Chloride
8260B	5035	Solid	Styrene
8260B	5035	Solid	Tetrachloroethene
8260B	5035	Solid	Toluene
8260B	5035	Solid	trans-1,2-Dichloroethene
8260B	5035	Solid	trans-1,3-Dichloropropene
8260B	5035	Solid	Trichloroethene
8260B	5035	Solid	Vinyl chloride
8260B	5035	Solid	Xylenes, Total
8270D	3541	Solid	1,2,4-Trichlorobenzene
8270D	3541	Solid	1,2-Dichlorobenzene
8270D	3541	Solid	1,3-Dichlorobenzene
8270D	3541	Solid	1,4-Dichlorobenzene
8270D	3541	Solid	2,2'-oxybis[1-chloropropane]
8270D	3541	Solid	2,4,5-Trichlorophenol
8270D	3541	Solid	2,4,6-Trichlorophenol
8270D	3541	Solid	2,4-Dichlorophenol
8270D	3541	Solid	2,4-Dimethylphenol
8270D	3541	Solid	2,4-Dinitrophenol
8270D	3541	Solid	2,4-Dinitrotoluene
8270D	3541	Solid	2,6-Dinitrotoluene
8270D	3541	Solid	2-Chloronaphthalene
8270D	3541	Solid	2-Chlorophenol
8270D	3541	Solid	2-Methylnaphthalene

Laboratory: Eurofins TestAmerica, Chicago (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

8270D	3541	Solid	2-Methylphenol
8270D	3541	Solid	2-Nitroaniline
8270D	3541	Solid	2-Nitrophenol
8270D	3541	Solid	3 & 4 Methylphenol
8270D	3541	Solid	3,3'-Dichlorobenzidine
8270D	3541	Solid	3-Nitroaniline
8270D	3541	Solid	4,6-Dinitro-2-methylphenol
8270D	3541	Solid	4-Bromophenyl phenyl ether
8270D	3541	Solid	4-Chloro-3-methylphenol
8270D	3541	Solid	4-Chloroaniline
8270D	3541	Solid	4-Chlorophenyl phenyl ether
8270D	3541	Solid	4-Nitroaniline
8270D	3541	Solid	4-Nitrophenol
8270D	3541	Solid	Acenaphthene
8270D	3541	Solid	Acenaphthylene
8270D	3541	Solid	Anthracene
8270D	3541	Solid	Benzo[a]anthracene
8270D	3541	Solid	Benzo[a]pyrene
8270D	3541	Solid	Benzo[b]fluoranthene
8270D	3541	Solid	Benzo[g,h,i]perylene
8270D	3541	Solid	Benzo[k]fluoranthene
8270D	3541	Solid	Bis(2-chloroethoxy)methane
8270D	3541	Solid	Bis(2-chloroethyl)ether
8270D	3541	Solid	Bis(2-ethylhexyl) phthalate
8270D	3541	Solid	Butyl benzyl phthalate
8270D	3541	Solid	Carbazole
8270D	3541	Solid	Chrysene
8270D	3541	Solid	Dibenz(a,h)anthracene
8270D	3541	Solid	Dibenzofuran
8270D	3541	Solid	Diethyl phthalate
8270D	3541	Solid	Dimethyl phthalate
8270D	3541	Solid	Di-n-butyl phthalate
8270D	3541	Solid	Di-n-octyl phthalate
8270D	3541	Solid	Fluoranthene
8270D	3541	Solid	Fluorene
8270D	3541	Solid	Hexachlorobenzene
8270D	3541	Solid	Hexachlorobutadiene
8270D	3541	Solid	Hexachlorocyclopentadiene
8270D	3541	Solid	Hexachloroethane
8270D	3541	Solid	Indeno[1,2,3-cd]pyrene
8270D	3541	Solid	Isophorone
8270D	3541	Solid	Naphthalene
8270D	3541	Solid	Nitrobenzene
8270D	3541	Solid	N-Nitrosodi-n-propylamine
8270D	3541	Solid	N-Nitrosodiphenylamine
8270D	3541	Solid	Pentachlorophenol
8270D	3541	Solid	Phenanthrene
8270D	3541	Solid	Phenol
8270D	3541	Solid	Pyrene

Accreditation/Certification Summary

Client: Andrews Engineering Inc.
Project/Site: IDOT - AE7-032

Job ID: 500-176325-3

Laboratory: Eurofins TestAmerica, Chicago (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

9014	9010B	Solid	Cyanide, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

ANDREWS ENGINEERING

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory		Project Name: AE7- 32A	COC No.: 1 of 1
Andrews Engineering, Inc.	Lab:	Test America - Chicago	Project No.: PTB/WO:184-006/32A	Lab Job No.: 500-176325
3300 Ginger Creek Drive	Address:	2417 Bond Street		
Springfield, IL 62711		University Park, IL 60484		
217-787-2334	Phone:	708-534-5200	TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other	
Contact: Colleen Grey	Contact:	Dick Wright	Chad Nelson	Sample Temp: 5.9,2.9,1.4,5.6
email: cgrey@andrews-eng.com	email:	richard.wright@testamericainc.com	Sampler:	

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.

Matrix Key:

W: Water
S: Soil
SL: Sludge
S: Sediment
L: Leachate
DW: Drinking Water
OL: Oil
O: Other

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				Comments
5	2900V-47-B01	1/14	1320	S	X	X					X	X	X	X	X					
6	2900V-47-B02	1/14	1330	↓	↓	↓					↓	↓	↓	↓	↓					
7	Trip Blank #3																			Added by TA

Relinquished by:	Date/Time	Received by:	Date/Time
[signature]	1/14 1510	Paula Bluckley	1/14/20 1520
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time