Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

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

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

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

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

I. Source Location Information

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

Project Name: FAP 338 (IL 59) at IL 38 Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
517-619 Dayton Avenue and 1230-1242 Neltnor Boulevard

City: West Chicago State: IL Zip Code: 60185

County: DuPage Township: Winfield

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

Latitude: 41.86454 (Decimal Degrees) Longitude: -88.19495 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 338 (IL 59) at IL 38

Latitude: 41.86454 Longitude: -88.19495

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION 2629-10-B02 WAS SAMPLED ADJACENT TO SITE NO. 2629-10. SEE FIGURE 2 AND TABLE 3a OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-86298-1

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

I, Kurt T. Fischer, L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

1/21/15
Date:

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

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

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

- If all samples at a site were below the most stringent MAC, the notation **“No Contaminants of Concern Noted”** is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2629-10
Residences

Sample ID	2629-10-B02	[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-7						
Sample Date	10/16/2014						
PID	0						
Sample pH	7.74						
Matrix	Soil						
No Contaminants of Concern Noted.							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-86298-1
Client Project/Site: IDOT - IL 59 - WO 092

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

Attn: Ms. Colleen Grey

Authorized for release by:
11/11/2014 4:58:42 PM

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

Client Sample ID: 2629-10-B02
Date Collected: 10/16/14 13:15
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-3
Matrix: Solid
Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0053		0.0053	0.0023	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Benzene	<0.0053		0.0053	0.00073	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Bromodichloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Carbon disulfide	<0.0053		0.0053	0.00080	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Carbon tetrachloride	<0.0053		0.0053	0.00097	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Chlorobenzene	<0.0053		0.0053	0.00054	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Chloroethane	<0.0053		0.0053	0.0014	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00070	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Dibromochloromethane	<0.0053		0.0053	0.00093	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
1,1-Dichloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
1,1-Dichloroethene	<0.0053		0.0053	0.00086	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
1,2-Dichloropropane	<0.0053		0.0053	0.00081	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00070	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00088	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Styrene	<0.0053		0.0053	0.00070	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Tetrachloroethene	<0.0053		0.0053	0.00081	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Toluene	<0.0053		0.0053	0.00075	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00095	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00080	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00073	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Trichloroethene	<0.0053		0.0053	0.00088	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Vinyl acetate	<0.0053	*	0.0053	0.00084	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	10/18/14 07:40	10/20/14 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*	*10/18/14 07:40*	*10/20/14 16:31*	*1*
Dibromofluoromethane	*98*		*75 - 120*	*10/18/14 07:40*	*10/20/14 16:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*	*10/18/14 07:40*	*10/20/14 16:31*	*1*
Toluene-d8 (Surr)	*100*		*75 - 122*	*10/18/14 07:40*	*10/20/14 16:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-1

Client Sample ID: 2629-10-B02
Date Collected: 10/16/14 13:15
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-3
Matrix: Solid
Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
N-Nitrosodi-n-propylamine	<0.21	*	0.21	0.051	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
2-Methylnaphthalene	<0.041		0.041	0.0077	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Anthracene	<0.041		0.041	0.0070	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Pyrene	<0.041		0.041	0.0083	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1

Client Sample ID: 2629-10-B02
Date Collected: 10/16/14 13:15
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-3
Matrix: Solid
Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Benzo[k]fluoranthene	<0.041	*	0.041	0.012	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Benzo[a]pyrene	<0.041		0.041	0.0081	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	10/20/14 07:25	10/31/14 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*69*		*25 - 110*	*10/20/14 07:25*	*10/31/14 12:37*	*1*
Phenol-d5	*53*		*31 - 110*	*10/20/14 07:25*	*10/31/14 12:37*	*1*
Nitrobenzene-d5	*70*		*25 - 115*	*10/20/14 07:25*	*10/31/14 12:37*	*1*
2-Fluorobiphenyl	*58*		*25 - 119*	*10/20/14 07:25*	*10/31/14 12:37*	*1*
2,4,6-Tribromophenol	*79*		*35 - 137*	*10/20/14 07:25*	*10/31/14 12:37*	*1*
Terphenyl-d14	*91*		*36 - 134*	*10/20/14 07:25*	*10/31/14 12:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Arsenic	**10**		0.61	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Barium	**110**		0.61	0.065	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Beryllium	**0.71**		0.24	0.048	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Boron	**3.3**		3.0	0.61	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Cadmium	<0.12		0.12	0.015	mg/Kg	☼	11/04/14 10:30	11/09/14 00:41	1
Calcium	**2400**	**B**	12	3.3	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Chromium	**19**	**B**	0.61	0.070	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Cobalt	**7.8**		0.30	0.061	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Copper	**20**		0.61	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Iron	**22000**		12	5.0	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Lead	**14**	**B**	0.30	0.090	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Magnesium	**3400**	**B**	6.1	1.2	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Manganese	**480**		0.61	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Nickel	**20**		0.61	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Potassium	**1100**		30	1.8	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Selenium	**0.44**	**J**	0.61	0.21	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Sodium	**190**		61	8.1	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Thallium	**1.4**		0.61	0.26	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Vanadium	**34**		0.30	0.045	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1
Zinc	**49**	**B**	1.2	0.24	mg/Kg	☼	11/04/14 10:30	11/05/14 05:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.29**	**J**	0.50	0.050	mg/L		10/28/14 09:00	10/29/14 03:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/28/14 09:00	10/29/14 03:54	1
Boron	**1.7**		0.10	0.050	mg/L		10/28/14 09:00	10/29/14 03:54	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-1

Client Sample ID: 2629-10-B02
Date Collected: 10/16/14 13:15
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/28/14 09:00	10/29/14 03:54	1
Chromium	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 03:54	1
Cobalt	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 03:54	1
Iron	**1.2**		0.20	0.20	mg/L		10/28/14 09:00	10/29/14 03:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/28/14 09:00	10/29/14 03:54	1
Manganese	**0.012**	**J**	0.025	0.010	mg/L		10/28/14 09:00	10/29/14 03:54	1
Nickel	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 03:54	1
Selenium	<0.050		0.050	0.020	mg/L		10/28/14 09:00	10/29/14 03:54	1
Silver	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 03:54	1
Zinc	**0.23**		0.10	0.020	mg/L		10/28/14 09:00	10/29/14 03:54	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		10/28/14 09:00	10/29/14 17:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/28/14 09:00	10/29/14 17:30	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		10/28/14 11:15	10/29/14 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.084**		0.019	0.0075	mg/Kg	☼	10/22/14 11:00	10/23/14 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.74**		0.200	0.200	SU			11/03/14 16:46	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
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.
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.
F1	MS and/or MSD Recovery exceeds the control 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

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Client Contact	Laboratory	
Andrews Engineering, Inc 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com 500-86298 COC	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: IL59 WestChicago ~~Cook~~ Co Project No.: IDOT2013-092 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other Sampler: KAM/AH

COC No.: 1 of 1

Lab Job No.: 500-86298

Sample Temp: 3.2, 2.8, 2.5

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.

ANALYSES

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
1	2629-10-B01-1	10/16/14	1:40	S	X	X					X	X	X	X						0-6.5
2	2629-10-B01-2	10/16/14	1:45	S	X	X					X	X	X	X						6.5-13
3	2629-10-B02	10/16/14	1:15	S	X	X					X	X	X	X						0-7

Matrix Key:

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

Relinquished by: Kim A. Myers (AEI)	Date/Time 10/16/14 4:05	Received by: Alex Hoppes	Date/Time 10/16/14 4:10
Relinquished by: Alex Hoppes	Date/Time 10/17/14 0910	Received by:	Date/Time 10/17/14 0910
Relinquished by:	Date/Time 10/17/14 1210	Received by: Thomas Scott	Date/Time 10/17/14 1210

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

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

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

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

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

I. Source Location Information

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

Project Name: FAP 338 (IL 59) at IL 38 Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
600 Block of E. Roosevelt Road

City: West Chicago State: IL Zip Code: 60185

County: DuPage Township: Winfield

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

Latitude: 41.86338 (Decimal Degrees) Longitude: -88.19497 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 338 (IL 59) at IL 38

Latitude: 41.86338 Longitude: -88.19497

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS 2629-11-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 2629-11. SEE FIGURE 2 AND TABLE 3b OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-86298-2

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

I, Kurt T. Fischer, L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

1/21/15
Date:

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

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

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

- If all samples at a site were below the most stringent MAC, the notation **“No Contaminants of Concern Noted”** is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2629-11

Vacant Lot

Sample ID	2629-11-B01-1		2629-11-B01-2		2629-11-B02		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-6.5		6.5-10		0-7							
Sample Date	10/16/2014		10/16/2014		10/16/2014							
PID	0		0		0							
Sample pH	7.65		7.55		8.69							
Matrix	Soil		Soil		Soil							
Inorganic Compounds, Total (mg/kg)												
Arsenic	**8.9**		**7.8**		**12**	**1,3**	11.3	NA	11.3	NA	13	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-86298-2
Client Project/Site: IDOT - IL 59 - WO 092

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

Attn: Ms. Colleen Grey

Authorized for release by:
11/11/2014 4:59:15 PM

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

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-2

Client Sample ID: 2629-11-B01-1
Date Collected: 10/16/14 14:00
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-4
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Vinyl acetate	<0.0047	*	0.0047	0.00074	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	10/18/14 07:40	10/20/14 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*	*10/18/14 07:40*	*10/20/14 16:55*	*1*
Dibromofluoromethane	*97*		*75 - 120*	*10/18/14 07:40*	*10/20/14 16:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*	*10/18/14 07:40*	*10/20/14 16:55*	*1*
Toluene-d8 (Surr)	*98*		*75 - 122*	*10/18/14 07:40*	*10/20/14 16:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-2

Client Sample ID: 2629-11-B01-1
Date Collected: 10/16/14 14:00
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-4
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
N-Nitrosodi-n-propylamine	<0.20	*	0.20	0.049	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Phenanthrene	**0.035**	**J**	0.040	0.0056	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Fluoranthene	**0.065**		0.040	0.0074	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Pyrene	**0.069**		0.040	0.0079	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Benzo[a]anthracene	**0.033**	**J**	0.040	0.0054	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1

Client Sample ID: 2629-11-B01-1
Date Collected: 10/16/14 14:00
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-4
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.039**	**J**	0.040	0.011	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Benzo[b]fluoranthene	**0.051**		0.040	0.0086	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Benzo[k]fluoranthene	**0.022**	**J ***	0.040	0.012	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Benzo[a]pyrene	**0.037**	**J**	0.040	0.0077	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Indeno[1,2,3-cd]pyrene	**0.032**	**J**	0.040	0.010	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
Benzo[g,h,i]perylene	**0.030**	**J**	0.040	0.013	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	10/20/14 07:25	11/03/14 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*72*		*25 - 110*	*10/20/14 07:25*	*11/03/14 14:29*	*1*
Phenol-d5	*57*		*31 - 110*	*10/20/14 07:25*	*11/03/14 14:29*	*1*
Nitrobenzene-d5	*69*		*25 - 115*	*10/20/14 07:25*	*11/03/14 14:29*	*1*
2-Fluorobiphenyl	*66*		*25 - 119*	*10/20/14 07:25*	*11/03/14 14:29*	*1*
2,4,6-Tribromophenol	*81*		*35 - 137*	*10/20/14 07:25*	*11/03/14 14:29*	*1*
Terphenyl-d14	*88*		*36 - 134*	*10/20/14 07:25*	*11/03/14 14:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.52**	**J**	1.2	0.47	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Arsenic	**8.9**		0.59	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Barium	**87**		0.59	0.063	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Beryllium	**0.65**		0.24	0.047	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Boron	**3.4**		3.0	0.59	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Cadmium	**0.14**		0.12	0.015	mg/Kg	☼	11/04/14 10:30	11/09/14 00:48	1
Calcium	**11000**	**B**	12	3.2	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Chromium	**15**	**B**	0.59	0.069	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Cobalt	**7.5**		0.30	0.059	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Copper	**22**		0.59	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Iron	**20000**		12	4.9	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Lead	**23**	**B**	0.30	0.088	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Magnesium	**8100**	**B**	5.9	1.2	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Manganese	**520**		0.59	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Nickel	**19**		0.59	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Potassium	**1300**		30	1.8	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Selenium	**0.40**	**J**	0.59	0.21	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Sodium	**650**		59	7.9	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Thallium	**1.6**		0.59	0.25	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Vanadium	**23**		0.30	0.044	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1
Zinc	**59**	**B**	1.2	0.24	mg/Kg	☼	11/04/14 10:30	11/05/14 05:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		11/04/14 10:45	11/05/14 03:13	1
Lead	<0.038		0.038	0.038	mg/L		11/04/14 10:45	11/06/14 22:35	5
Manganese	**0.87**		0.025	0.010	mg/L		11/04/14 10:45	11/05/14 03:13	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-2

Client Sample ID: 2629-11-B01-1
Date Collected: 10/16/14 14:00
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.35	J	0.50	0.050	mg/L		10/28/14 09:00	10/29/14 04:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/28/14 09:00	10/29/14 04:00	1
Boron	1.6		0.10	0.050	mg/L		10/28/14 09:00	10/29/14 04:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/28/14 09:00	10/29/14 04:00	1
Chromium	0.026		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 04:00	1
Cobalt	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 04:00	1
Iron	21		0.20	0.20	mg/L		10/28/14 09:00	10/29/14 04:00	1
Lead	0.015		0.0075	0.0075	mg/L		10/28/14 09:00	10/29/14 04:00	1
Manganese	0.19		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 04:00	1
Nickel	0.018	J	0.025	0.010	mg/L		10/28/14 09:00	10/29/14 04:00	1
Selenium	<0.050		0.050	0.020	mg/L		10/28/14 09:00	10/29/14 04:00	1
Silver	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 04:00	1
Zinc	0.30		0.10	0.020	mg/L		10/28/14 09:00	10/29/14 04:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		10/28/14 09:00	10/29/14 17:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/28/14 09:00	10/29/14 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		10/28/14 11:15	10/29/14 09:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.073		0.018	0.0071	mg/Kg	☼	10/22/14 11:00	10/23/14 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.65		0.200	0.200	SU			11/03/14 16:46	1

Client Sample ID: 2629-11-B01-2
Date Collected: 10/16/14 14:05
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-5
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0022	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Bromodichloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Carbon tetrachloride	<0.0050		0.0050	0.00092	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
1,1-Dichloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
1,2-Dichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00069	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Vinyl acetate	<0.0050	*	0.0050	0.00079	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	10/18/14 07:40	10/20/14 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*	*10/18/14 07:40*	*10/20/14 17:18*	*1*
Dibromofluoromethane	*97*		*75 - 120*	*10/18/14 07:40*	*10/20/14 17:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*	*10/18/14 07:40*	*10/20/14 17:18*	*1*
Toluene-d8 (Surr)	*101*		*75 - 122*	*10/18/14 07:40*	*10/20/14 17:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-2

Client Sample ID: 2629-11-B01-2
Date Collected: 10/16/14 14:05
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-5
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
N-Nitrosodi-n-propylamine	<0.20	*	0.20	0.049	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.32	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1

Client Sample ID: 2629-11-B01-2
Date Collected: 10/16/14 14:05
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-5
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Benzo[k]fluoranthene	<0.039	*	0.039	0.012	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	10/20/14 07:25	10/31/14 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*78*		*25 - 110*	*10/20/14 07:25*	*10/31/14 12:58*	*1*
Phenol-d5	*57*		*31 - 110*	*10/20/14 07:25*	*10/31/14 12:58*	*1*
Nitrobenzene-d5	*72*		*25 - 115*	*10/20/14 07:25*	*10/31/14 12:58*	*1*
2-Fluorobiphenyl	*63*		*25 - 119*	*10/20/14 07:25*	*10/31/14 12:58*	*1*
2,4,6-Tribromophenol	*84*		*35 - 137*	*10/20/14 07:25*	*10/31/14 12:58*	*1*
Terphenyl-d14	*98*		*36 - 134*	*10/20/14 07:25*	*10/31/14 12:58*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Arsenic	**7.8**		0.60	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Barium	**32**		0.60	0.064	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Beryllium	**0.22**	**J**	0.24	0.048	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Boron	**8.6**		3.0	0.60	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Cadmium	**0.29**	**J**	0.60	0.076	mg/Kg	☼	11/04/14 10:30	11/10/14 07:38	5
Calcium	**170000**	**B**	120	33	mg/Kg	☼	11/04/14 10:30	11/07/14 20:03	10
Chromium	**5.6**	**B**	0.60	0.070	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Cobalt	**3.5**		0.30	0.060	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Copper	**11**		0.60	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Iron	**13000**		12	4.9	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Lead	**6.6**	**B**	0.30	0.089	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Magnesium	**100000**	**B**	60	12	mg/Kg	☼	11/04/14 10:30	11/07/14 20:03	10
Manganese	**550**		0.60	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Nickel	**9.7**		0.60	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Potassium	**920**		30	1.8	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Selenium	<0.60		0.60	0.21	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Silver	**0.031**	**J**	0.30	0.022	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Sodium	**480**		60	8.0	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Thallium	**1.1**		0.60	0.25	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Vanadium	**9.8**		0.30	0.044	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1
Zinc	**27**	**B**	1.2	0.24	mg/Kg	☼	11/04/14 10:30	11/05/14 05:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		11/04/14 10:45	11/05/14 03:18	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-2

Client Sample ID: 2629-11-B01-2
Date Collected: 10/16/14 14:05
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.31**	**J**	0.50	0.050	mg/L		10/28/14 09:00	10/29/14 04:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/28/14 09:00	10/29/14 04:07	1
Boron	**1.8**		0.10	0.050	mg/L		10/28/14 09:00	10/29/14 04:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/28/14 09:00	10/29/14 04:07	1
Chromium	**0.012**	**J**	0.025	0.010	mg/L		10/28/14 09:00	10/29/14 04:07	1
Cobalt	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 04:07	1
Iron	**5.3**		0.20	0.20	mg/L		10/28/14 09:00	10/29/14 04:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/28/14 09:00	10/29/14 04:07	1
Manganese	**0.059**		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 04:07	1
Nickel	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 04:07	1
Selenium	<0.050		0.050	0.020	mg/L		10/28/14 09:00	10/29/14 04:07	1
Silver	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 04:07	1
Zinc	**0.25**		0.10	0.020	mg/L		10/28/14 09:00	10/29/14 04:07	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		10/28/14 09:00	10/29/14 17:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/28/14 09:00	10/29/14 17:39	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		10/28/14 11:15	10/29/14 09:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.053**		0.019	0.0076	mg/Kg	☼	10/22/14 11:00	10/23/14 13:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.55**		0.200	0.200	SU			11/03/14 16:46	1

Client Sample ID: 2629-11-B02
Date Collected: 10/16/14 14:15
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-6
Matrix: Solid
Percent Solids: 93.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
1,1-Dichloroethene	<0.0047		0.0047	0.00075	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Vinyl acetate	<0.0047	*	0.0047	0.00073	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	10/18/14 07:40	10/20/14 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 122*	*10/18/14 07:40*	*10/20/14 17:41*	*1*
Dibromofluoromethane	*103*		*75 - 120*	*10/18/14 07:40*	*10/20/14 17:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*10/18/14 07:40*	*10/20/14 17:41*	*1*
Toluene-d8 (Surr)	*101*		*75 - 122*	*10/18/14 07:40*	*10/20/14 17:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.075	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-2

Client Sample ID: 2629-11-B02
Date Collected: 10/16/14 14:15
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-6
Matrix: Solid
Percent Solids: 93.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
2-Methylphenol	<0.17		0.17	0.054	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
N-Nitrosodi-n-propylamine	<0.17	*	0.17	0.041	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
2-Chlorophenol	<0.17		0.17	0.058	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Nitrobenzene	<0.034		0.034	0.0084	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Hexachlorobutadiene	<0.17		0.17	0.053	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Naphthalene	<0.034		0.034	0.0052	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
2,4-Dichlorophenol	<0.34		0.34	0.080	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
4-Chloroaniline	<0.68		0.68	0.16	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
2,4,5-Trichlorophenol	<0.34		0.34	0.077	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Hexachlorocyclopentadiene	<0.68		0.68	0.19	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
2-Methylnaphthalene	<0.034		0.034	0.0062	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
2,6-Dinitrotoluene	<0.17		0.17	0.066	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
2-Nitrophenol	<0.34		0.34	0.080	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
3-Nitroaniline	<0.34		0.34	0.10	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Dimethyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
2,4-Dinitrophenol	<0.68		0.68	0.60	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Acenaphthene	<0.034		0.034	0.0061	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
4-Nitrophenol	<0.68		0.68	0.32	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Fluorene	<0.034		0.034	0.0048	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Hexachlorobenzene	<0.068		0.068	0.0078	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Pentachlorophenol	<0.68		0.68	0.54	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.27	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Phenanthrene	<0.034		0.034	0.0047	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Anthracene	<0.034		0.034	0.0057	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Carbazole	<0.17		0.17	0.087	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Fluoranthene	**0.018**	**J**	0.034	0.0063	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Pyrene	**0.019**	**J**	0.034	0.0067	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Butyl benzyl phthalate	<0.17		0.17	0.064	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Benzo[a]anthracene	**0.011**	**J**	0.034	0.0046	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1

Client Sample ID: 2629-11-B02
Date Collected: 10/16/14 14:15
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-6
Matrix: Solid
Percent Solids: 93.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.011**	**J**	0.034	0.0092	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.062	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Di-n-octyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Benzo[b]fluoranthene	**0.013**	**J**	0.034	0.0073	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Benzo[k]fluoranthene	<0.034	*	0.034	0.010	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Benzo[a]pyrene	**0.012**	**J**	0.034	0.0065	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Indeno[1,2,3-cd]pyrene	**0.010**	**J**	0.034	0.0088	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0065	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1
3 & 4 Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	10/20/14 07:25	10/31/14 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*72*		*25 - 110*	*10/20/14 07:25*	*10/31/14 13:19*	*1*
Phenol-d5	*54*		*31 - 110*	*10/20/14 07:25*	*10/31/14 13:19*	*1*
Nitrobenzene-d5	*61*		*25 - 115*	*10/20/14 07:25*	*10/31/14 13:19*	*1*
2-Fluorobiphenyl	*60*		*25 - 119*	*10/20/14 07:25*	*10/31/14 13:19*	*1*
2,4,6-Tribromophenol	*79*		*35 - 137*	*10/20/14 07:25*	*10/31/14 13:19*	*1*
Terphenyl-d14	*82*		*36 - 134*	*10/20/14 07:25*	*10/31/14 13:19*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.40	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Arsenic	**12**		0.49	0.098	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Barium	**18**		0.49	0.053	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Beryllium	**0.17**	**J**	0.20	0.039	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Boron	**7.0**		2.5	0.49	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Cadmium	**0.27**	**J**	0.49	0.063	mg/Kg	☼	11/04/14 10:30	11/10/14 07:44	5
Calcium	**130000**	**B**	99	27	mg/Kg	☼	11/04/14 10:30	11/07/14 20:31	10
Chromium	**4.9**	**B**	0.49	0.057	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Cobalt	**3.6**		0.25	0.049	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Copper	**16**		0.49	0.099	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Iron	**16000**		9.9	4.1	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Lead	**9.6**	**B**	0.25	0.073	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Magnesium	**80000**	**B**	49	10	mg/Kg	☼	11/04/14 10:30	11/07/14 20:31	10
Manganese	**370**		0.49	0.099	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Nickel	**9.1**		0.49	0.099	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Potassium	**870**		25	1.5	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Selenium	<0.49		0.49	0.18	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Silver	<0.25		0.25	0.018	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Sodium	**690**		49	6.6	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Thallium	**1.0**		0.49	0.21	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Vanadium	**9.4**		0.25	0.036	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1
Zinc	**36**	**B**	0.99	0.20	mg/Kg	☼	11/04/14 10:30	11/05/14 05:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.038		0.038	0.038	mg/L		11/04/14 10:45	11/06/14 22:42	5

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-2

Client Sample ID: 2629-11-B02
Date Collected: 10/16/14 14:15
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.050	mg/L		10/28/14 09:00	10/29/14 04:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/28/14 09:00	10/29/14 04:28	1
Boron	1.6		0.10	0.050	mg/L		10/28/14 09:00	10/29/14 04:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/28/14 09:00	10/29/14 04:28	1
Chromium	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 04:28	1
Cobalt	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 04:28	1
Iron	2.4		0.20	0.20	mg/L		10/28/14 09:00	10/29/14 04:28	1
Lead	0.013		0.0075	0.0075	mg/L		10/28/14 09:00	10/29/14 04:28	1
Manganese	0.043		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 04:28	1
Nickel	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 04:28	1
Selenium	<0.050		0.050	0.020	mg/L		10/28/14 09:00	10/29/14 04:28	1
Silver	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 04:28	1
Zinc	0.30		0.10	0.020	mg/L		10/28/14 09:00	10/29/14 04:28	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		10/28/14 09:00	10/29/14 17:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/28/14 09:00	10/29/14 17:51	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		10/28/14 11:15	10/29/14 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.016	0.0063	mg/Kg	☼	10/22/14 11:00	10/23/14 14:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.69		0.200	0.200	SU			11/03/14 16:46	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

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

Metals

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

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING INC

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: IL 59 W. Chgo ~~Cook~~ DuPage Co Project No.: IDOT 2013-092 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:** KAM / AH

COC No.: 1 of 1

Lab Job No.: 500-86298

Sample Temp: 3.2, 2.8, 2.5

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.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
4	2629-11-B01-1	10/16/14	2:00	S	X	X					X	X	X	X						0-6.5'
5	2629-11-B01-2	10/16/14	2:05	S	X	X					X	X	X	X						6.5-13'
6	2629-11-B02	10/16/14	2:15	S	X	X					X	X	X	X						0-7'
7	2629-11-B03	10/16/14	2:25	S	X	X					X	X	X	X						0-7'

Relinquished by: Kevin A. McKee	Date/Time 10/16/14 4:05	Received by: Alex Hoppes	Date/Time 10/16/14 4:10
Relinquished by: Alex Hoppes	Date/Time 10/17/14 0910	Received by:	Date/Time 10/17/14 0910
Relinquished by:	Date/Time 10/17/14 1210	Received by: Sherri Scott	Date/Time 10/17/14 1210

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663 Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

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

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

I. Source Location Information

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

Project Name: FAP 338 (IL 59) at IL 38 Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
524-530 Carriage Drive

City: West Chicago State: IL Zip Code: 60185

County: DuPage Township: Winfield

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

Latitude: 41.86110 (Decimal Degrees) Longitude: -88.19500 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 338 (IL 59) at IL 38

Latitude: 41.86110 Longitude: -88.19500

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS 2629-13-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 2629-13. SEE FIGURE 2 AND TABLE 3d OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-86298-4

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

I, Kurt T. Fischer, L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

1/21/15
Date:

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

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

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

- If all samples at a site were below the most stringent MAC, the notation **“No Contaminants of Concern Noted”** is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2629-13
Apartment Buildings

Sample ID	2629-13-B01-1		2629-13-B01-2		2629-13-B02		[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-6.5		6.5-10		0-7							
Sample Date	10/16/2014		10/16/2014		10/16/2014							
PID	0		0		0							
Sample pH	8.02		8.92		8.58							
Matrix	Soil		Soil		Soil							
Inorganic Compounds, Total (mg/kg)												
Arsenic	**12**	**1,3**	**7.7**		**7.8**		11.3	NA	11.3	NA	13	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-86298-4
Client Project/Site: IDOT - IL 59 - WO 092

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

Attn: Ms. Colleen Grey

Authorized for release by:
11/11/2014 5:00:11 PM

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

Client Sample ID: 2629-13-B01-1
Date Collected: 10/16/14 15:10
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-11
Matrix: Solid
Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0054		0.0054	0.0023	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Benzene	<0.0054		0.0054	0.00074	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Bromodichloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Carbon disulfide	<0.0054		0.0054	0.00080	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Carbon tetrachloride	<0.0054		0.0054	0.00098	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Chlorobenzene	<0.0054		0.0054	0.00055	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Chloroethane	<0.0054		0.0054	0.0015	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00071	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Dibromochloromethane	<0.0054		0.0054	0.00094	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
1,1-Dichloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
1,1-Dichloroethene	<0.0054		0.0054	0.00087	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
1,2-Dichloropropane	<0.0054		0.0054	0.00082	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00071	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
2-Hexanone	<0.0054		0.0054	0.0016	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00089	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Styrene	<0.0054		0.0054	0.00071	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Tetrachloroethene	<0.0054		0.0054	0.00082	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Toluene	<0.0054		0.0054	0.00075	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00074	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00096	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00073	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Trichloroethene	<0.0054		0.0054	0.00089	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Vinyl acetate	<0.0054	*	0.0054	0.00085	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	10/18/14 07:40	10/20/14 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*	*10/18/14 07:40*	*10/20/14 19:38*	*1*
Dibromofluoromethane	*95*		*75 - 120*	*10/18/14 07:40*	*10/20/14 19:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*10/18/14 07:40*	*10/20/14 19:38*	*1*
Toluene-d8 (Surr)	*100*		*75 - 122*	*10/18/14 07:40*	*10/20/14 19:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.077	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-4

Client Sample ID: 2629-13-B01-1
Date Collected: 10/16/14 15:10
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-11
Matrix: Solid
Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
2-Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
N-Nitrosodi-n-propylamine	<0.17	*	0.17	0.042	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Hexachloroethane	<0.17		0.17	0.053	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Nitrobenzene	<0.034		0.034	0.0087	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Hexachlorobutadiene	<0.17		0.17	0.055	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Naphthalene	<0.034		0.034	0.0053	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
2,4-Dichlorophenol	<0.34		0.34	0.082	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
2,4,5-Trichlorophenol	<0.34		0.34	0.079	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
2-Methylnaphthalene	<0.034		0.034	0.0064	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
2-Nitroaniline	<0.17		0.17	0.047	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
2-Nitrophenol	<0.34		0.34	0.082	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Acenaphthylene	<0.034		0.034	0.0046	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Acenaphthene	<0.034		0.034	0.0062	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Fluorene	<0.034		0.034	0.0049	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
4-Nitroaniline	<0.34		0.34	0.15	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.046	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Hexachlorobenzene	<0.070		0.070	0.0080	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Diethyl phthalate	<0.17		0.17	0.059	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.041	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.28	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Phenanthrene	<0.034		0.034	0.0048	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Anthracene	<0.034		0.034	0.0058	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Carbazole	<0.17		0.17	0.090	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Di-n-butyl phthalate	<0.17		0.17	0.053	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Fluoranthene	<0.034		0.034	0.0064	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Pyrene	<0.034		0.034	0.0069	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Butyl benzyl phthalate	<0.17		0.17	0.066	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Benzo[a]anthracene	<0.034		0.034	0.0047	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1

Client Sample ID: 2629-13-B01-1
Date Collected: 10/16/14 15:10
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-11
Matrix: Solid
Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.034		0.034	0.0095	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.049	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Di-n-octyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Benzo[b]fluoranthene	<0.034		0.034	0.0075	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Benzo[k]fluoranthene	<0.034	*	0.034	0.010	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Benzo[a]pyrene	<0.034		0.034	0.0067	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.0090	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0067	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1
3 & 4 Methylphenol	<0.17		0.17	0.058	mg/Kg	☼	10/20/14 07:25	10/31/14 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*61*		*25 - 110*	*10/20/14 07:25*	*10/31/14 14:22*	*1*
Phenol-d5	*44*		*31 - 110*	*10/20/14 07:25*	*10/31/14 14:22*	*1*
Nitrobenzene-d5	*59*		*25 - 115*	*10/20/14 07:25*	*10/31/14 14:22*	*1*
2-Fluorobiphenyl	*51*		*25 - 119*	*10/20/14 07:25*	*10/31/14 14:22*	*1*
2,4,6-Tribromophenol	*76*		*35 - 137*	*10/20/14 07:25*	*10/31/14 14:22*	*1*
Terphenyl-d14	*78*		*36 - 134*	*10/20/14 07:25*	*10/31/14 14:22*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Arsenic	**12**		0.53	0.11	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Barium	**46**		0.53	0.057	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Beryllium	**0.37**		0.21	0.042	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Boron	**5.0**		2.7	0.53	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Cadmium	**0.44**		0.11	0.013	mg/Kg	☼	11/04/14 10:30	11/09/14 01:46	1
Calcium	**110000**	**B**	110	29	mg/Kg	☼	11/04/14 10:30	11/07/14 21:48	10
Chromium	**9.0**	**B**	0.53	0.062	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Cobalt	**5.1**		0.27	0.053	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Copper	**15**		0.53	0.11	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Iron	**20000**		11	4.4	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Lead	**10**	**B**	0.27	0.079	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Magnesium	**69000**	**B**	53	11	mg/Kg	☼	11/04/14 10:30	11/07/14 21:48	10
Manganese	**400**		0.53	0.11	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Nickel	**14**		0.53	0.11	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Potassium	**1200**		27	1.6	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Sodium	**240**		53	7.1	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Thallium	**1.2**		0.53	0.22	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Vanadium	**17**		0.27	0.039	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1
Zinc	**36**	**B**	1.1	0.21	mg/Kg	☼	11/04/14 10:30	11/05/14 06:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.30**	**J**	0.50	0.050	mg/L		10/28/14 09:00	10/29/14 05:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/28/14 09:00	10/29/14 05:01	1
Boron	**1.6**		0.10	0.050	mg/L		10/28/14 09:00	10/29/14 05:01	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-4

Client Sample ID: 2629-13-B01-1
Date Collected: 10/16/14 15:10
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/28/14 09:00	10/29/14 05:01	1
Chromium	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:01	1
Cobalt	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:01	1
Iron	**1.5**		0.20	0.20	mg/L		10/28/14 09:00	10/29/14 05:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/28/14 09:00	10/29/14 05:01	1
Manganese	**0.018**	**J**	0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:01	1
Nickel	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:01	1
Selenium	<0.050		0.050	0.020	mg/L		10/28/14 09:00	10/29/14 05:01	1
Silver	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:01	1
Zinc	**0.21**		0.10	0.020	mg/L		10/28/14 09:00	10/29/14 05:01	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		10/28/14 09:00	10/29/14 18:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/28/14 09:00	10/29/14 18:11	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		10/28/14 11:15	10/29/14 10:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**		0.017	0.0068	mg/Kg	☼	10/22/14 11:00	10/23/14 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.02**		0.200	0.200	SU			11/03/14 16:46	1

Client Sample ID: 2629-13-B01-2
Date Collected: 10/16/14 15:15
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-12
Matrix: Solid
Percent Solids: 97.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Vinyl acetate	<0.0044	*	0.0044	0.00070	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	10/18/14 07:40	10/20/14 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 122*	*10/18/14 07:40*	*10/20/14 20:01*	*1*
Dibromofluoromethane	*96*		*75 - 120*	*10/18/14 07:40*	*10/20/14 20:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 134*	*10/18/14 07:40*	*10/20/14 20:01*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*	*10/18/14 07:40*	*10/20/14 20:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.16		0.16	0.072	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Bis(2-chloroethyl)ether	<0.16		0.16	0.049	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
1,3-Dichlorobenzene	<0.16		0.16	0.037	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
1,4-Dichlorobenzene	<0.16		0.16	0.042	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-4

Client Sample ID: 2629-13-B01-2
Date Collected: 10/16/14 15:15
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-12
Matrix: Solid
Percent Solids: 97.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.16		0.16	0.039	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
2-Methylphenol	<0.16		0.16	0.052	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
2,2'-oxybis[1-chloropropane]	<0.16		0.16	0.038	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
N-Nitrosodi-n-propylamine	<0.16	*	0.16	0.040	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Hexachloroethane	<0.16		0.16	0.049	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
2-Chlorophenol	<0.16		0.16	0.055	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Nitrobenzene	<0.032		0.032	0.0081	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Bis(2-chloroethoxy)methane	<0.16		0.16	0.033	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
1,2,4-Trichlorobenzene	<0.16		0.16	0.035	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Isophorone	<0.16		0.16	0.036	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
2,4-Dimethylphenol	<0.32		0.32	0.12	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Hexachlorobutadiene	<0.16		0.16	0.051	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Naphthalene	<0.032		0.032	0.0050	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
2,4-Dichlorophenol	<0.32		0.32	0.077	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
4-Chloroaniline	<0.65		0.65	0.15	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
2,4,6-Trichlorophenol	<0.32		0.32	0.11	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
2,4,5-Trichlorophenol	<0.32		0.32	0.074	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Hexachlorocyclopentadiene	<0.65		0.65	0.19	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
2-Methylnaphthalene	<0.032		0.032	0.0060	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
2-Nitroaniline	<0.16		0.16	0.044	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
2-Chloronaphthalene	<0.16		0.16	0.036	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
4-Chloro-3-methylphenol	<0.32		0.32	0.11	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
2,6-Dinitrotoluene	<0.16		0.16	0.064	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
2-Nitrophenol	<0.32		0.32	0.077	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
3-Nitroaniline	<0.32		0.32	0.10	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Dimethyl phthalate	<0.16		0.16	0.042	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
2,4-Dinitrophenol	<0.65		0.65	0.57	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Acenaphthylene	<0.032		0.032	0.0043	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
2,4-Dinitrotoluene	<0.16		0.16	0.052	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Acenaphthene	<0.032		0.032	0.0058	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Dibenzofuran	<0.16		0.16	0.038	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
4-Nitrophenol	<0.65		0.65	0.31	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Fluorene	<0.032		0.032	0.0046	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
4-Nitroaniline	<0.32		0.32	0.14	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
4-Bromophenyl phenyl ether	<0.16		0.16	0.043	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Hexachlorobenzene	<0.065		0.065	0.0075	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Diethyl phthalate	<0.16		0.16	0.055	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
4-Chlorophenyl phenyl ether	<0.16		0.16	0.038	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Pentachlorophenol	<0.65		0.65	0.52	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
N-Nitrosodiphenylamine	<0.16		0.16	0.038	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
4,6-Dinitro-2-methylphenol	<0.32		0.32	0.26	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Phenanthrene	<0.032		0.032	0.0045	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Anthracene	<0.032		0.032	0.0054	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Carbazole	<0.16		0.16	0.084	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Di-n-butyl phthalate	<0.16		0.16	0.049	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Fluoranthene	<0.032		0.032	0.0060	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Pyrene	<0.032		0.032	0.0064	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Butyl benzyl phthalate	<0.16		0.16	0.062	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Benzo[a]anthracene	<0.032		0.032	0.0044	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1

Client Sample ID: 2629-13-B01-2
Date Collected: 10/16/14 15:15
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-12
Matrix: Solid
Percent Solids: 97.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.032		0.032	0.0088	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
3,3'-Dichlorobenzidine	<0.16		0.16	0.045	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Bis(2-ethylhexyl) phthalate	<0.16		0.16	0.059	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Di-n-octyl phthalate	<0.16		0.16	0.053	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Benzo[b]fluoranthene	<0.032		0.032	0.0070	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Benzo[k]fluoranthene	<0.032	*	0.032	0.0096	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Benzo[a]pyrene	<0.032		0.032	0.0063	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Indeno[1,2,3-cd]pyrene	<0.032		0.032	0.0084	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Dibenz(a,h)anthracene	<0.032		0.032	0.0063	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
Benzo[g,h,i]perylene	<0.032		0.032	0.010	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1
3 & 4 Methylphenol	<0.16		0.16	0.054	mg/Kg	☼	10/20/14 07:25	10/31/14 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*62*		*25 - 110*	*10/20/14 07:25*	*10/31/14 14:42*	*1*
Phenol-d5	*45*		*31 - 110*	*10/20/14 07:25*	*10/31/14 14:42*	*1*
Nitrobenzene-d5	*60*		*25 - 115*	*10/20/14 07:25*	*10/31/14 14:42*	*1*
2-Fluorobiphenyl	*49*		*25 - 119*	*10/20/14 07:25*	*10/31/14 14:42*	*1*
2,4,6-Tribromophenol	*74*		*35 - 137*	*10/20/14 07:25*	*10/31/14 14:42*	*1*
Terphenyl-d14	*76*		*36 - 134*	*10/20/14 07:25*	*10/31/14 14:42*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<4.9		4.9	2.0	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Arsenic	**7.7**		2.4	0.48	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Barium	**7.4**		2.4	0.26	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Beryllium	<0.97		0.97	0.19	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Boron	**7.5**	**J**	12	2.4	mg/Kg	☼	11/04/14 10:30	11/10/14 08:09	5
Cadmium	**0.17**	**J**	0.49	0.062	mg/Kg	☼	11/04/14 10:30	11/09/14 01:53	5
Calcium	**150000**	**B**	49	13	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Chromium	**3.9**	**B**	2.4	0.28	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Cobalt	**2.6**		1.2	0.24	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Copper	**11**	**B**	2.4	0.49	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Iron	**13000**		49	20	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Lead	**5.6**	**B**	1.2	0.36	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Magnesium	**100000**	**B**	24	5.0	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Manganese	**450**		2.4	0.49	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Nickel	**6.2**		2.4	0.49	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Potassium	**530**		120	7.3	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Selenium	<2.4		2.4	0.87	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Silver	<1.2		1.2	0.088	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Sodium	**400**		240	33	mg/Kg	☼	11/04/14 10:30	11/10/14 08:09	5
Thallium	<2.4		2.4	1.0	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Vanadium	**7.1**		1.2	0.18	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5
Zinc	**46**	**B**	4.9	0.98	mg/Kg	☼	11/04/14 10:30	11/07/14 22:00	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.25**	**J**	0.50	0.050	mg/L		10/28/14 09:00	10/29/14 05:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/28/14 09:00	10/29/14 05:07	1
Boron	**1.6**		0.10	0.050	mg/L		10/28/14 09:00	10/29/14 05:07	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-4

Client Sample ID: 2629-13-B01-2
Date Collected: 10/16/14 15:15
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/28/14 09:00	10/29/14 05:07	1
Chromium	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:07	1
Cobalt	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:07	1
Iron	<0.20		0.20	0.20	mg/L		10/28/14 09:00	10/29/14 05:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/28/14 09:00	10/29/14 05:07	1
Manganese	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:07	1
Nickel	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:07	1
Selenium	<0.050		0.050	0.020	mg/L		10/28/14 09:00	10/29/14 05:07	1
Silver	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:07	1
Zinc	**0.22**		0.10	0.020	mg/L		10/28/14 09:00	10/29/14 05:07	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		10/28/14 09:00	10/29/14 18:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/28/14 09:00	10/29/14 18:15	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		10/28/14 11:15	10/29/14 10:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**		0.017	0.0066	mg/Kg	☼	10/22/14 11:00	10/23/14 14:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.92**		0.200	0.200	SU			11/03/14 16:46	1

Client Sample ID: 2629-13-B02
Date Collected: 10/16/14 15:25
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-13
Matrix: Solid
Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0022	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00086	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Vinyl acetate	<0.0052	*	0.0052	0.00082	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	10/18/14 07:40	10/20/14 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 122*	*10/18/14 07:40*	*10/20/14 20:24*	*1*
Dibromofluoromethane	*101*		*75 - 120*	*10/18/14 07:40*	*10/20/14 20:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*	*10/18/14 07:40*	*10/20/14 20:24*	*1*
Toluene-d8 (Surr)	*98*		*75 - 122*	*10/18/14 07:40*	*10/20/14 20:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.093	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-4

Client Sample ID: 2629-13-B02
Date Collected: 10/16/14 15:25
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-13
Matrix: Solid
Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
N-Nitrosodi-n-propylamine	<0.21	*	0.21	0.051	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
2-Methylnaphthalene	<0.041		0.041	0.0077	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
2-Nitrophenol	<0.41		0.41	0.099	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
2,4-Dinitrophenol	<0.84		0.84	0.74	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.34	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Anthracene	<0.041		0.041	0.0070	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Pyrene	<0.041		0.041	0.0083	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1

Client Sample ID: 2629-13-B02
Date Collected: 10/16/14 15:25
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-13
Matrix: Solid
Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Benzo[k]fluoranthene	<0.041	*	0.041	0.012	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Benzo[a]pyrene	<0.041		0.041	0.0081	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0081	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	10/20/14 07:25	10/31/14 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*66*		*25 - 110*	*10/20/14 07:25*	*10/31/14 15:02*	*1*
Phenol-d5	*51*		*31 - 110*	*10/20/14 07:25*	*10/31/14 15:02*	*1*
Nitrobenzene-d5	*66*		*25 - 115*	*10/20/14 07:25*	*10/31/14 15:02*	*1*
2-Fluorobiphenyl	*51*		*25 - 119*	*10/20/14 07:25*	*10/31/14 15:02*	*1*
2,4,6-Tribromophenol	*73*		*35 - 137*	*10/20/14 07:25*	*10/31/14 15:02*	*1*
Terphenyl-d14	*82*		*36 - 134*	*10/20/14 07:25*	*10/31/14 15:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Arsenic	**7.8**		0.62	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Barium	**81**		0.62	0.067	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Beryllium	**0.64**		0.25	0.050	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Boron	**2.3**	**J**	3.1	0.62	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Cadmium	<0.12		0.12	0.016	mg/Kg	☼	11/04/14 10:30	11/09/14 01:59	1
Calcium	**1900**	**B**	12	3.4	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Chromium	**17**	**B**	0.62	0.072	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Cobalt	**7.2**		0.31	0.062	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Copper	**17**		0.62	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Iron	**20000**		12	5.1	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Lead	**11**	**B**	0.31	0.093	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Magnesium	**3100**	**B**	6.2	1.3	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Manganese	**360**		0.62	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Nickel	**18**		0.62	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Potassium	**980**		31	1.9	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Selenium	**0.46**	**J**	0.62	0.22	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Sodium	**2600**		62	8.3	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Thallium	**1.3**		0.62	0.26	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Vanadium	**26**		0.31	0.046	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1
Zinc	**46**	**B**	1.2	0.25	mg/Kg	☼	11/04/14 10:30	11/05/14 06:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/04/14 10:45	11/05/14 03:56	1
Chromium	<0.025		0.025	0.010	mg/L		11/04/14 10:45	11/05/14 03:56	1
Iron	**0.20**		0.20	0.20	mg/L		11/04/14 10:45	11/05/14 03:56	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-4

Client Sample ID: 2629-13-B02
Date Collected: 10/16/14 15:25
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		11/04/14 10:45	11/05/14 03:56	1
Manganese	**4.7**		0.025	0.010	mg/L		11/04/14 10:45	11/05/14 03:56	1
Nickel	**0.040**		0.025	0.010	mg/L		11/04/14 10:45	11/05/14 03:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.94**		0.50	0.050	mg/L		10/28/14 09:00	10/29/14 05:14	1
Beryllium	**0.0059**		0.0040	0.0040	mg/L		10/28/14 09:00	10/29/14 05:14	1
Boron	**1.5**		0.10	0.050	mg/L		10/28/14 09:00	10/29/14 05:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/28/14 09:00	10/29/14 05:14	1
Chromium	**0.16**		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:14	1
Cobalt	**0.044**		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:14	1
Iron	**180**		0.20	0.20	mg/L		10/28/14 09:00	10/29/14 05:14	1
Lead	**0.052**		0.0075	0.0075	mg/L		10/28/14 09:00	10/29/14 05:14	1
Manganese	**3.0**		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:14	1
Nickel	**0.17**		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:14	1
Selenium	<0.050		0.050	0.020	mg/L		10/28/14 09:00	10/29/14 05:14	1
Silver	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:14	1
Zinc	**0.64**		0.10	0.020	mg/L		10/28/14 09:00	10/29/14 05:14	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		10/28/14 09:00	10/29/14 18:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/28/14 09:00	10/29/14 18:20	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		10/28/14 11:15	10/29/14 10:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.031**		0.021	0.0082	mg/Kg	☼	10/22/14 11:00	10/23/14 19:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.58**		0.200	0.200	SU			11/03/14 16:46	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

Metals

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

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project	COC
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: IL 59 W. Chgo DuPage Co Project No.: IDOT 2013-092 TAT: ☒15 BD ☐10 BD ☐5 BD ☐2 BD ___ Other **Sampler:** KAM/AH	COC No.: 1 of 1 Lab Job No.: 500-86298 Sample Temp: 3.2, 2.8, 2.5

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.

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	pH	% Solids	Waste Characterization					Comments
11	2629-13-B01-1	10/16/14	3:10	S	X	X					X	X	X	X						0-6.5'
12	2629-13-B01-2	10/16/14	3:15	S	X	X					X	X	X	X						6.5'-13'
13	2629-13-B02	10/16/14	3:25	S	X	X					X	X	X	X						0-7

Relinquished by	Date/Time	Received by	Date/Time
Relinquished by: [signature]	10/16/14 4:05	Received by: Alex Hoppes	10/16/14 4:10
Relinquished by: Alex Hoppes	10/17/14 0910	Received by: [signature]	10/17/14 0910
Relinquished by: [signature]	10/17/14 1210	Received by: [signature]	10/17/14 1210

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

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

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

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

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

I. Source Location Information

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

Project Name: FAP 338 (IL 59) at IL 38 Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
725 Dayton Avenue

City: West Chicago State: IL Zip Code: 60185

County: DuPage Township: Winfield

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

Latitude: 41.86418 (Decimal Degrees) Longitude: -88.19461 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

IEPA BOL #'s: 0430900014, 0430905005, and 0430905143

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

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 338 (IL 59) at IL 38

Latitude: 41.86418 Longitude: -88.19461

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS 2629-15-B01 AND -B02 WERE SAMPLED ADJACENT TO SITE NO. 2629-15. SEE FIGURE 2 AND TABLE 3e OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-86298-5

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

I, Kurt T. Fischer, L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

1/21/15
Date:

LICENSED PROFESSIONAL GEOLOGIST
KURT T. FISCHER
196-000881
ILLINOIS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

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

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

- If all samples at a site were below the most stringent MAC, the notation **“No Contaminants of Concern Noted”** is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2629-15

West Chicago Waste Water Treatment Plant

Sample ID	2629-15-B01-1	2629-15-B01-2	2629-15-B02	[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-6.5	6.5-10	0-7						
Sample Date	10/16/2014	10/16/2014	10/16/2014						
PID	0	0	0						
Sample pH	7.78	7.89	8.2						
Matrix	Soil	Soil	Soil						
No Contaminants of Concern Noted.									

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-86298-5
Client Project/Site: IDOT - IL 59 - WO 092

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

Attn: Ms. Colleen Grey

Authorized for release by:
11/11/2014 5:00:37 PM

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

Client Sample ID: 2629-15-B01-1
Date Collected: 10/16/14 12:45
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-14
Matrix: Solid
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0060		0.0060	0.0026	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Benzene	<0.0060		0.0060	0.00082	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Bromodichloromethane	<0.0060		0.0060	0.0010	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Bromoform	<0.0060		0.0060	0.0014	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Bromomethane	<0.0060		0.0060	0.0018	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
2-Butanone (MEK)	<0.0060		0.0060	0.0022	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Carbon disulfide	<0.0060		0.0060	0.00089	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Carbon tetrachloride	<0.0060		0.0060	0.0011	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Chlorobenzene	<0.0060		0.0060	0.00060	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Chloroethane	<0.0060		0.0060	0.0016	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Chloroform	<0.0060		0.0060	0.00069	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Chloromethane	<0.0060		0.0060	0.0013	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
cis-1,2-Dichloroethene	<0.0060		0.0060	0.00084	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
cis-1,3-Dichloropropene	<0.0060		0.0060	0.00078	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Dibromochloromethane	<0.0060		0.0060	0.0010	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
1,1-Dichloroethane	<0.0060		0.0060	0.00094	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
1,2-Dichloroethane	<0.0060		0.0060	0.00088	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
1,1-Dichloroethene	<0.0060		0.0060	0.00096	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
1,2-Dichloropropane	<0.0060		0.0060	0.00091	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
1,3-Dichloropropene, Total	<0.0060		0.0060	0.00078	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Ethylbenzene	<0.0060		0.0060	0.0012	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
2-Hexanone	<0.0060		0.0060	0.0017	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Methylene Chloride	<0.0060		0.0060	0.0016	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
4-Methyl-2-pentanone (MIBK)	<0.0060		0.0060	0.0016	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Methyl tert-butyl ether	<0.0060		0.0060	0.00098	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Styrene	<0.0060		0.0060	0.00078	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
1,1,2,2-Tetrachloroethane	<0.0060		0.0060	0.0012	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Tetrachloroethene	<0.0060		0.0060	0.00091	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Toluene	<0.0060		0.0060	0.00083	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
trans-1,2-Dichloroethene	<0.0060		0.0060	0.00082	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
trans-1,3-Dichloropropene	<0.0060		0.0060	0.0011	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
1,1,1-Trichloroethane	<0.0060		0.0060	0.00089	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
1,1,2-Trichloroethane	<0.0060		0.0060	0.00081	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Trichloroethene	<0.0060		0.0060	0.00098	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Vinyl acetate	<0.0060		0.0060	0.00094	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Vinyl chloride	<0.0060		0.0060	0.0013	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1
Xylenes, Total	<0.012		0.012	0.00054	mg/Kg	☼	10/18/14 07:40	10/21/14 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*	*10/18/14 07:40*	*10/21/14 10:58*	*1*
Dibromofluoromethane	*101*		*75 - 120*	*10/18/14 07:40*	*10/21/14 10:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*10/18/14 07:40*	*10/21/14 10:58*	*1*
Toluene-d8 (Surr)	*101*		*75 - 122*	*10/18/14 07:40*	*10/21/14 10:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-5

Client Sample ID: 2629-15-B01-1
Date Collected: 10/16/14 12:45
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-14
Matrix: Solid
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
N-Nitrosodi-n-propylamine	<0.20	*	0.20	0.048	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.31	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1

Client Sample ID: 2629-15-B01-1
Date Collected: 10/16/14 12:45
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-14
Matrix: Solid
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Benzo[k]fluoranthene	<0.039	*	0.039	0.011	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	10/20/14 07:25	11/03/14 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*75*		*25 - 110*	*10/20/14 07:25*	*11/03/14 13:29*	*1*
Phenol-d5	*56*		*31 - 110*	*10/20/14 07:25*	*11/03/14 13:29*	*1*
Nitrobenzene-d5	*76*		*25 - 115*	*10/20/14 07:25*	*11/03/14 13:29*	*1*
2-Fluorobiphenyl	*61*		*25 - 119*	*10/20/14 07:25*	*11/03/14 13:29*	*1*
2,4,6-Tribromophenol	*84*		*35 - 137*	*10/20/14 07:25*	*11/03/14 13:29*	*1*
Terphenyl-d14	*90*		*36 - 134*	*10/20/14 07:25*	*11/03/14 13:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.51**	**J**	1.2	0.48	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Arsenic	**11**		0.59	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Barium	**96**		0.59	0.064	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Beryllium	**0.66**		0.24	0.047	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Boron	**2.9**	**J**	3.0	0.59	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Cadmium	<0.12		0.12	0.015	mg/Kg	☼	11/04/14 10:30	11/09/14 02:05	1
Calcium	**2500**	**B**	12	3.2	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Chromium	**20**	**B**	0.59	0.069	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Cobalt	**10**		0.30	0.059	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Copper	**20**		0.59	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Iron	**27000**		12	4.9	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Lead	**13**	**B**	0.30	0.088	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Magnesium	**3700**	**B**	5.9	1.2	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Manganese	**630**		0.59	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Nickel	**20**		0.59	0.12	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Potassium	**1100**		30	1.8	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Selenium	**0.85**		0.59	0.21	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Sodium	**180**		59	8.0	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Thallium	**1.8**		0.59	0.25	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Vanadium	**33**		0.30	0.044	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1
Zinc	**58**	**B**	1.2	0.24	mg/Kg	☼	11/04/14 10:30	11/05/14 06:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		11/04/14 10:45	11/05/14 04:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/04/14 10:45	11/05/14 04:01	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-5

Client Sample ID: 2629-15-B01-1
Date Collected: 10/16/14 12:45
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.28	J	0.50	0.050	mg/L		10/28/14 09:00	10/29/14 05:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/28/14 09:00	10/29/14 05:20	1
Boron	1.4		0.10	0.050	mg/L		10/28/14 09:00	10/29/14 05:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/28/14 09:00	10/29/14 05:20	1
Chromium	0.014	J	0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:20	1
Cobalt	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:20	1
Iron	8.8		0.20	0.20	mg/L		10/28/14 09:00	10/29/14 05:20	1
Lead	0.0079		0.0075	0.0075	mg/L		10/28/14 09:00	10/29/14 05:20	1
Manganese	0.070		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:20	1
Nickel	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:20	1
Selenium	<0.050		0.050	0.020	mg/L		10/28/14 09:00	10/29/14 05:20	1
Silver	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:20	1
Zinc	0.24		0.10	0.020	mg/L		10/28/14 09:00	10/29/14 05:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		10/28/14 09:00	10/29/14 18:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/28/14 09:00	10/29/14 18:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		10/28/14 11:15	10/29/14 10:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070		0.019	0.0076	mg/Kg	☼	10/22/14 11:00	10/23/14 19:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.78		0.200	0.200	SU			11/03/14 16:46	1

Client Sample ID: 2629-15-B01-2
Date Collected: 10/16/14 12:50
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-15
Matrix: Solid
Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0054		0.0054	0.0023	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Benzene	<0.0054		0.0054	0.00074	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Bromodichloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
2-Butanone (MEK)	<0.0054		0.0054	0.0020	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Carbon disulfide	<0.0054		0.0054	0.00081	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Carbon tetrachloride	<0.0054		0.0054	0.00098	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Chlorobenzene	<0.0054		0.0054	0.00055	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Chloroethane	<0.0054		0.0054	0.0015	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00071	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Dibromochloromethane	<0.0054		0.0054	0.00094	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
1,1-Dichloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
1,1-Dichloroethene	<0.0054		0.0054	0.00087	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
1,2-Dichloropropane	<0.0054		0.0054	0.00082	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00071	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
2-Hexanone	<0.0054		0.0054	0.0016	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00089	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Styrene	<0.0054		0.0054	0.00071	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Tetrachloroethene	<0.0054		0.0054	0.00082	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Toluene	<0.0054		0.0054	0.00076	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00074	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00097	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00081	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00074	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Trichloroethene	<0.0054		0.0054	0.00089	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Vinyl acetate	<0.0054		0.0054	0.00085	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	10/18/14 07:40	10/23/14 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 122*	*10/18/14 07:40*	*10/23/14 15:22*	*1*
Dibromofluoromethane	*98*		*75 - 120*	*10/18/14 07:40*	*10/23/14 15:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*10/18/14 07:40*	*10/23/14 15:22*	*1*
Toluene-d8 (Surr)	*100*		*75 - 122*	*10/18/14 07:40*	*10/23/14 15:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-5

Client Sample ID: 2629-15-B01-2
Date Collected: 10/16/14 12:50
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-15
Matrix: Solid
Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
2-Methylphenol	<0.17		0.17	0.054	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
N-Nitrosodi-n-propylamine	<0.17	*	0.17	0.041	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Nitrobenzene	<0.033		0.033	0.0084	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Hexachlorobutadiene	<0.17		0.17	0.053	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
2,4-Dichlorophenol	<0.33		0.33	0.080	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
4-Chloroaniline	<0.68		0.68	0.16	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Hexachlorocyclopentadiene	<0.68		0.68	0.19	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
2-Methylnaphthalene	<0.033		0.033	0.0062	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
2,6-Dinitrotoluene	<0.17		0.17	0.066	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Dimethyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
2,4-Dinitrophenol	<0.68		0.68	0.59	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
4-Nitrophenol	<0.68		0.68	0.32	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Fluorene	<0.033		0.033	0.0047	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Hexachlorobenzene	<0.068		0.068	0.0078	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Pentachlorophenol	<0.68		0.68	0.54	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.27	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Phenanthrene	<0.033		0.033	0.0047	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Anthracene	<0.033		0.033	0.0056	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Carbazole	<0.17		0.17	0.086	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Pyrene	<0.033		0.033	0.0067	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Butyl benzyl phthalate	<0.17		0.17	0.064	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1

Client Sample ID: 2629-15-B01-2
Date Collected: 10/16/14 12:50
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-15
Matrix: Solid
Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.033		0.033	0.0091	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Di-n-octyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Benzo[k]fluoranthene	<0.033	*	0.033	0.0099	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Benzo[a]pyrene	<0.033		0.033	0.0065	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0087	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0065	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1
3 & 4 Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	10/20/14 07:25	10/31/14 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*74*		*25 - 110*	*10/20/14 07:25*	*10/31/14 15:43*	*1*
Phenol-d5	*55*		*31 - 110*	*10/20/14 07:25*	*10/31/14 15:43*	*1*
Nitrobenzene-d5	*67*		*25 - 115*	*10/20/14 07:25*	*10/31/14 15:43*	*1*
2-Fluorobiphenyl	*59*		*25 - 119*	*10/20/14 07:25*	*10/31/14 15:43*	*1*
2,4,6-Tribromophenol	*81*		*35 - 137*	*10/20/14 07:25*	*10/31/14 15:43*	*1*
Terphenyl-d14	*86*		*36 - 134*	*10/20/14 07:25*	*10/31/14 15:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<4.8		4.8	1.9	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Arsenic	**3.8**		2.4	0.48	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Barium	**9.2**		2.4	0.26	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Beryllium	<0.96		0.96	0.19	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Boron	**11**	**J**	12	2.4	mg/Kg	☼	11/04/14 10:30	11/10/14 08:16	5
Cadmium	<0.48		0.48	0.061	mg/Kg	☼	11/04/14 10:30	11/09/14 02:11	5
Calcium	**150000**	**B**	48	13	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Chromium	**3.8**	**B**	2.4	0.28	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Cobalt	**2.6**		1.2	0.24	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Copper	**8.7**	**B**	2.4	0.48	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Iron	**7700**		48	20	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Lead	**3.8**	**B**	1.2	0.36	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Magnesium	**100000**	**B**	24	4.9	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Manganese	**330**		2.4	0.48	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Nickel	**5.9**		2.4	0.48	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Potassium	**810**		120	7.2	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Selenium	<2.4		2.4	0.85	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Silver	<1.2		1.2	0.087	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Sodium	**260**		240	32	mg/Kg	☼	11/04/14 10:30	11/10/14 08:16	5
Thallium	**1.1**	**J**	2.4	1.0	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Vanadium	**6.5**		1.2	0.18	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5
Zinc	**22**	**B**	4.8	0.97	mg/Kg	☼	11/04/14 10:30	11/07/14 22:25	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.29**	**J**	0.50	0.050	mg/L		10/28/14 09:00	10/29/14 05:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/28/14 09:00	10/29/14 05:27	1
Boron	**1.8**		0.10	0.050	mg/L		10/28/14 09:00	10/29/14 05:27	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-5

Client Sample ID: 2629-15-B01-2
Date Collected: 10/16/14 12:50
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/28/14 09:00	10/29/14 05:27	1
Chromium	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:27	1
Cobalt	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:27	1
Iron	**0.20**		0.20	0.20	mg/L		10/28/14 09:00	10/29/14 05:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/28/14 09:00	10/29/14 05:27	1
Manganese	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:27	1
Nickel	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:27	1
Selenium	<0.050		0.050	0.020	mg/L		10/28/14 09:00	10/29/14 05:27	1
Silver	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:27	1
Zinc	**0.28**		0.10	0.020	mg/L		10/28/14 09:00	10/29/14 05:27	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		10/28/14 09:00	10/29/14 18:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/28/14 09:00	10/29/14 18:36	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		10/28/14 11:15	10/29/14 10:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.016	0.0064	mg/Kg	☼	10/22/14 11:00	10/23/14 19:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.89**		0.200	0.200	SU			11/03/14 16:46	1

Client Sample ID: 2629-15-B02
Date Collected: 10/16/14 13:00
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-16
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Benzene	<0.0051		0.0051	0.00071	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Bromodichloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Bromomethane	<0.0051		0.0051	0.0016	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
2-Butanone (MEK)	<0.0051		0.0051	0.0019	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Carbon disulfide	<0.0051		0.0051	0.00077	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Carbon tetrachloride	<0.0051		0.0051	0.00094	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00073	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00068	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Dibromochloromethane	<0.0051		0.0051	0.00090	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
1,1-Dichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00068	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Styrene	<0.0051		0.0051	0.00068	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Tetrachloroethene	<0.0051		0.0051	0.00079	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00077	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Trichloroethene	<0.0051		0.0051	0.00085	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Vinyl acetate	<0.0051		0.0051	0.00081	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	10/18/14 07:40	10/21/14 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 122*	*10/18/14 07:40*	*10/21/14 11:46*	*1*
Dibromofluoromethane	*94*		*75 - 120*	*10/18/14 07:40*	*10/21/14 11:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*10/18/14 07:40*	*10/21/14 11:46*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*	*10/18/14 07:40*	*10/21/14 11:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-5

Client Sample ID: 2629-15-B02
Date Collected: 10/16/14 13:00
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-16
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
N-Nitrosodi-n-propylamine	<0.20	*	0.20	0.049	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.32	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1

Client Sample ID: 2629-15-B02
Date Collected: 10/16/14 13:00
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-16
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Benzo[k]fluoranthene	<0.040	*	0.040	0.012	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	10/20/14 07:25	10/31/14 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*80*		*25 - 110*	*10/20/14 07:25*	*10/31/14 16:03*	*1*
Phenol-d5	*64*		*31 - 110*	*10/20/14 07:25*	*10/31/14 16:03*	*1*
Nitrobenzene-d5	*74*		*25 - 115*	*10/20/14 07:25*	*10/31/14 16:03*	*1*
2-Fluorobiphenyl	*66*		*25 - 119*	*10/20/14 07:25*	*10/31/14 16:03*	*1*
2,4,6-Tribromophenol	*91*		*35 - 137*	*10/20/14 07:25*	*10/31/14 16:03*	*1*
Terphenyl-d14	*96*		*36 - 134*	*10/20/14 07:25*	*10/31/14 16:03*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Arsenic	**8.7**		0.57	0.11	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Barium	**83**		0.57	0.061	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Beryllium	**0.57**		0.23	0.046	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Boron	**1.4**	**J**	2.9	0.57	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Cadmium	<0.11		0.11	0.015	mg/Kg	☼	11/04/14 10:30	11/09/14 02:17	1
Calcium	**1300**	**B**	11	3.1	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Chromium	**12**	**B**	0.57	0.066	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Cobalt	**8.0**		0.29	0.057	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Copper	**18**		0.57	0.11	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Iron	**17000**		11	4.7	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Lead	**11**	**B**	0.29	0.085	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Magnesium	**2200**	**B**	5.7	1.2	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Manganese	**560**		0.57	0.11	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Nickel	**18**		0.57	0.11	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Potassium	**680**		29	1.7	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Selenium	**0.46**	**J**	0.57	0.20	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Sodium	**610**		57	7.7	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Thallium	**1.5**		0.57	0.24	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Vanadium	**18**		0.29	0.042	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1
Zinc	**42**	**B**	1.1	0.23	mg/Kg	☼	11/04/14 10:30	11/05/14 06:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.38**	**J**	0.50	0.050	mg/L		10/28/14 09:00	10/29/14 05:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/28/14 09:00	10/29/14 05:49	1
Boron	**2.0**		0.10	0.050	mg/L		10/28/14 09:00	10/29/14 05:49	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-5

Client Sample ID: 2629-15-B02
Date Collected: 10/16/14 13:00
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/28/14 09:00	10/29/14 05:49	1
Chromium	**0.012**	**J**	0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:49	1
Cobalt	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:49	1
Iron	**4.6**		0.20	0.20	mg/L		10/28/14 09:00	10/29/14 05:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/28/14 09:00	10/29/14 05:49	1
Manganese	**0.040**		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:49	1
Nickel	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:49	1
Selenium	<0.050		0.050	0.020	mg/L		10/28/14 09:00	10/29/14 05:49	1
Silver	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 05:49	1
Zinc	**0.30**		0.10	0.020	mg/L		10/28/14 09:00	10/29/14 05:49	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		10/28/14 09:00	10/29/14 18:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/28/14 09:00	10/29/14 18:40	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		10/28/14 11:15	10/29/14 10:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.054**		0.019	0.0073	mg/Kg	☼	10/22/14 11:00	10/23/14 19:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.20**		0.200	0.200	SU			11/03/14 16:46	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

Metals

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

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory		
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: IL59 W. Chgo DuPage Co Project No.: IDOT 2013-092 TAT: [X] 15 BD [ ] 10 BD [ ] 5 BD [ ] 2 BD ___ Other Sampler: KAM/AH	COC No.: 1 of 1 Lab Job No.: 500-86298 Sample Temp: 3.2, 2.8, 2.5

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.

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	pH	% Solids	Waste Characterization					Comments
14	2629-15-B01-1	10/16/14	12:45	S	X	X					X	X	X	X						0-6.5'
15	2629-15-B01-2	10/16/14	12:50	S	X	X					X	X	X	X						6.5'-13'
16	2629-15-B02	10/16/14	1:00	S	X	X					X	X	X	X						0-7'

Relinquished by	Date/Time	Received by	Date/Time
Kevin A. [illegible]	10/16/14 4:05	Alex Hoppe	10/16/14 4:10
Alex Hoppe	10/17/14 0910	[signature]	10/17/14 0910
[signature]	10/17/14 1210	[signature]	10/17/14 1210

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

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

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

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

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

I. Source Location Information

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

Project Name: FAP 338 (IL 59) at IL 38 Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
1307 S. Neltnor Boulevard

City: West Chicago State: IL Zip Code: 60185

County: DuPage Township: Winfield

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

Latitude: 41.86332 (Decimal Degrees) Longitude: -88.19456 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

IEPA Site Number(s), if assigned: BOL: 0430905136 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 338 (IL 59) at IL 38

Latitude: 41.86332 Longitude: -88.19456

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION 2629-16-B02 WAS SAMPLED ADJACENT TO SITE NO. 2629-16. SEE FIGURE 2 AND TABLE 3f OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-86298-6

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

I, Kurt T. Fischer, L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

1/21/15
Date:

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

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

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

- If all samples at a site were below the most stringent MAC, the notation **“No Contaminants of Concern Noted”** is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2629-16
Shell Gasoline Station

Sample ID	2629-16-B02	[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-7						
Sample Date	10/16/2014						
PID	0						
Sample pH	8.51						
Matrix	Soil						
No Contaminants of Concern Noted.							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-86298-6
Client Project/Site: IDOT - IL 59 - WO 092

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

Attn: Ms. Colleen Grey

Authorized for release by:
11/11/2014 5:00:56 PM

Richard Wright, Senior Project Manager
(708)534-5200
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Client Sample ID: 2629-16-B02
Date Collected: 10/16/14 12:05
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-19
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00065	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	10/18/14 13:40	10/21/14 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*	*10/18/14 13:40*	*10/21/14 12:58*	*1*
Dibromofluoromethane	*93*		*75 - 120*	*10/18/14 13:40*	*10/21/14 12:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*10/18/14 13:40*	*10/21/14 12:58*	*1*
Toluene-d8 (Surr)	*100*		*75 - 122*	*10/18/14 13:40*	*10/21/14 12:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-6

Client Sample ID: 2629-16-B02
Date Collected: 10/16/14 12:05
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-19
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
N-Nitrosodi-n-propylamine	<0.19	*	0.19	0.046	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Carbazole	<0.19		0.19	0.098	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Fluoranthene	**0.012**	**J**	0.038	0.0071	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Pyrene	**0.0093**	**J**	0.038	0.0076	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Benzo[a]anthracene	**0.0086**	**J**	0.038	0.0051	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1

Client Sample ID: 2629-16-B02
Date Collected: 10/16/14 12:05
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-19
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Benzo[b]fluoranthene	**0.010**	**J**	0.038	0.0082	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Benzo[k]fluoranthene	<0.038	*	0.038	0.011	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Benzo[a]pyrene	**0.0086**	**J**	0.038	0.0074	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	10/20/14 07:25	10/31/14 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*86*		*25 - 110*	*10/20/14 07:25*	*10/31/14 17:04*	*1*
Phenol-d5	*63*		*31 - 110*	*10/20/14 07:25*	*10/31/14 17:04*	*1*
Nitrobenzene-d5	*67*		*25 - 115*	*10/20/14 07:25*	*10/31/14 17:04*	*1*
2-Fluorobiphenyl	*62*		*25 - 119*	*10/20/14 07:25*	*10/31/14 17:04*	*1*
2,4,6-Tribromophenol	*94*		*35 - 137*	*10/20/14 07:25*	*10/31/14 17:04*	*1*
Terphenyl-d14	*92*		*36 - 134*	*10/20/14 07:25*	*10/31/14 17:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.5		5.5	2.2	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Arsenic	**4.4**		2.7	0.55	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Barium	**14**		2.7	0.29	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Beryllium	<1.1		1.1	0.22	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Boron	**13**	**J**	14	2.7	mg/Kg	☼	11/04/14 10:30	11/10/14 08:28	5
Cadmium	**0.20**	**J**	0.55	0.070	mg/Kg	☼	11/04/14 10:30	11/10/14 08:28	5
Calcium	**160000**	**B**	55	15	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Chromium	**4.5**	**B**	2.7	0.32	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Cobalt	**2.7**		1.4	0.27	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Copper	**7.8**	**B**	2.7	0.55	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Iron	**8300**		55	23	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Lead	**3.9**	**B**	1.4	0.41	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Magnesium	**100000**	**B**	27	5.6	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Manganese	**340**		2.7	0.55	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Nickel	**6.1**		2.7	0.55	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Potassium	**870**		140	8.2	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Selenium	<2.7		2.7	0.97	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Silver	<1.4		1.4	0.099	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Sodium	**540**		270	37	mg/Kg	☼	11/04/14 10:30	11/10/14 08:28	5
Thallium	<2.7		2.7	1.2	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Vanadium	**8.5**		1.4	0.20	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5
Zinc	**27**	**B**	5.5	1.1	mg/Kg	☼	11/04/14 10:30	11/07/14 23:18	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		11/04/14 10:45	11/05/14 04:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/04/14 10:45	11/05/14 04:11	1

Client: Andrews Engineering Inc.
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Date Collected: 10/16/14 12:05
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Lab Sample ID: 500-86298-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.34**	**J**	0.50	0.050	mg/L		10/28/14 09:00	10/29/14 06:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/28/14 09:00	10/29/14 06:08	1
Boron	**1.5**		0.10	0.050	mg/L		10/28/14 09:00	10/29/14 06:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/28/14 09:00	10/29/14 06:08	1
Chromium	**0.021**	**J**	0.025	0.010	mg/L		10/28/14 09:00	10/29/14 06:08	1
Cobalt	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 06:08	1
Iron	**15**		0.20	0.20	mg/L		10/28/14 09:00	10/29/14 06:08	1
Lead	**0.012**		0.0075	0.0075	mg/L		10/28/14 09:00	10/29/14 06:08	1
Manganese	**0.15**		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 06:08	1
Nickel	**0.014**	**J**	0.025	0.010	mg/L		10/28/14 09:00	10/29/14 06:08	1
Selenium	<0.050		0.050	0.020	mg/L		10/28/14 09:00	10/29/14 06:08	1
Silver	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 06:08	1
Zinc	**0.27**		0.10	0.020	mg/L		10/28/14 09:00	10/29/14 06:08	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		10/28/14 09:00	10/29/14 18:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/28/14 09:00	10/29/14 18:52	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		10/28/14 11:15	10/29/14 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.038**		0.018	0.0070	mg/Kg	☼	10/22/14 11:00	10/23/14 19:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.51**		0.200	0.200	SU			11/03/14 16:46	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

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

Metals

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

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory		Project Name: IL 59 W. Chgo DuPage Co	COC No.: 1 of 1
Andrews Engineering, Inc.	Lab:	Test America - Chicago	Project No.: IDOT 2013-092	Lab Job No.: 500-86298
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: 3.2, 2.8, 2.5
Contact: Colleen Grey	Contact:	Dick Wright		
email: cgrey@andrews-eng.com	email:	richard.wright@testamericainc.com	Sampler: KAM/AH	

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.

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	pH	% Solids	Waste Characterization					Comments
17	2629-16-B01-1	10/16/14	12:20	S	X	X					X	X	X	X						0-6.5'
18	2629-16-B01-2	10/16/14	12:25	S	X	X					X	X	X	X						6.5'-13'
19	2629-16-B02	10/16/14	12:05	S	X	X					X	X	X	X						0-7'
20	2629-16-B03	10/16/14	12:35	S	X	X					X	X	X	X						0-7'

Relinquished by:	Date/Time	Received by:	Date/Time
Kevin A. [illegible] (AEI)	10/16/14 4:05	Alex [illegible]	10/16/14 4:05
Alex [illegible]	10/17/14 0910	[illegible]	10/17/14 0910
[illegible]	10/17/14 1210	[illegible]	10/17/14 1210

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

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

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

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

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

I. Source Location Information

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

Project Name: FAP 338 (IL 59) at IL 38 Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
1300 Block of S. Neltnor Boulevard

City: West Chicago State: IL Zip Code: 60185

County: DuPage Township: Winfield

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

Latitude: 41.86293 (Decimal Degrees) Longitude: -88.19466 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 338 (IL 59) at IL 38

Latitude: 41.86293 Longitude: -88.19466

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION 2629-17-B02 WAS SAMPLED ADJACENT TO SITE NO. 2629-17. SEE FIGURE 2 AND TABLE 3g OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-86298-7

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

I, Kurt T. Fischer, L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

1/21/15
Date:

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

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

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

- If all samples at a site were below the most stringent MAC, the notation **“No Contaminants of Concern Noted”** is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2629-17
Car Wash

Sample ID	2629-17-B02	2629-17-B02 DUP	[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	0-5						
Sample Date	10/16/2014	10/16/2014						
PID	0	0						
Sample pH	8.13	7.99						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-86298-7
Client Project/Site: IDOT - IL 59 - WO 092

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

Attn: Ms. Colleen Grey

Authorized for release by:
11/11/2014 5:01:25 PM

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

Client Sample ID: 2629-17-B02
Date Collected: 10/16/14 11:30
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-22
Matrix: Solid
Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015		0.0049	0.0021	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00082	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Vinyl acetate	<0.0049		0.0049	0.00078	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	10/18/14 07:40	10/21/14 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 122*	*10/18/14 07:40*	*10/21/14 14:09*	*1*
Dibromofluoromethane	*97*		*75 - 120*	*10/18/14 07:40*	*10/21/14 14:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*	*10/18/14 07:40*	*10/21/14 14:09*	*1*
Toluene-d8 (Surr)	*98*		*75 - 122*	*10/18/14 07:40*	*10/21/14 14:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-7

Client Sample ID: 2629-17-B02
Date Collected: 10/16/14 11:30
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-22
Matrix: Solid
Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
4-Nitroaniline	<0.41	*	0.41	0.17	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Phenanthrene	**0.017**	**J**	0.041	0.0057	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Carbazole	<0.21	*	0.21	0.11	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Fluoranthene	**0.048**		0.041	0.0076	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Pyrene	**0.062**		0.041	0.0082	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1

Client Sample ID: 2629-17-B02
Date Collected: 10/16/14 11:30
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-22
Matrix: Solid
Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.019**	**J**	0.041	0.011	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Benzo[b]fluoranthene	**0.037**	**J**	0.041	0.0089	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	10/20/14 07:15	10/30/14 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*36*		*25 - 110*	*10/20/14 07:15*	*10/30/14 02:06*	*1*
Phenol-d5	*31*		*31 - 110*	*10/20/14 07:15*	*10/30/14 02:06*	*1*
Nitrobenzene-d5	*26*		*25 - 115*	*10/20/14 07:15*	*10/30/14 02:06*	*1*
2-Fluorobiphenyl	*31*		*25 - 119*	*10/20/14 07:15*	*10/30/14 02:06*	*1*
2,4,6-Tribromophenol	*47*		*35 - 137*	*10/20/14 07:15*	*10/30/14 02:06*	*1*
Terphenyl-d14	*61*		*36 - 134*	*10/20/14 07:15*	*10/30/14 02:06*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Arsenic	**7.5**		0.61	0.12	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Barium	**110**		0.61	0.065	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Beryllium	**0.65**		0.24	0.049	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Boron	**2.0**	**J**	3.0	0.61	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Cadmium	**0.20**	**B**	0.12	0.015	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Calcium	**2100**		12	3.3	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Chromium	**17**	**B**	0.61	0.071	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Cobalt	**13**		0.30	0.061	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Copper	**16**		0.61	0.12	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Iron	**20000**		12	5.0	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Lead	**20**	**B**	0.30	0.091	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Magnesium	**3400**	**B**	6.1	1.3	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Manganese	**610**		0.61	0.12	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Nickel	**20**		0.61	0.12	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Potassium	**1100**		30	1.8	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Selenium	<0.61		0.61	0.22	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Sodium	**510**		61	8.2	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Thallium	<0.61		0.61	0.26	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Vanadium	**26**		0.30	0.045	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1
Zinc	**53**	**B**	1.2	0.25	mg/Kg	☼	11/04/14 10:10	11/05/14 01:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		11/04/14 10:45	11/05/14 04:26	1
Lead	**0.0089**		0.0075	0.0075	mg/L		11/04/14 10:45	11/05/14 04:26	1
Manganese	**3.6**		0.025	0.010	mg/L		11/04/14 10:45	11/05/14 04:26	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-7

Client Sample ID: 2629-17-B02
Date Collected: 10/16/14 11:30
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-22
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49	J	0.50	0.050	mg/L		10/28/14 09:00	10/29/14 00:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/28/14 09:00	10/29/14 00:12	1
Boron	1.4		0.10	0.050	mg/L		10/28/14 09:00	10/29/14 00:12	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/28/14 09:00	10/29/14 00:12	1
Chromium	0.061		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 00:12	1
Cobalt	0.013	J	0.025	0.010	mg/L		10/28/14 09:00	10/29/14 00:12	1
Iron	49		0.20	0.20	mg/L		10/28/14 09:00	10/29/14 00:12	1
Lead	0.029		0.0075	0.0075	mg/L		10/28/14 09:00	10/29/14 00:12	1
Manganese	0.46		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 00:12	1
Nickel	0.049		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 00:12	1
Selenium	<0.050		0.050	0.020	mg/L		10/28/14 09:00	10/29/14 00:12	1
Silver	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 00:12	1
Zinc	0.33		0.10	0.020	mg/L		10/28/14 09:00	10/29/14 00:12	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		10/28/14 09:00	10/29/14 19:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/28/14 09:00	10/29/14 19:37	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		10/28/14 11:15	10/29/14 07:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036	B	0.018	0.0072	mg/Kg	☼	10/22/14 11:00	10/23/14 12:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13		0.200	0.200	SU			11/03/14 16:46	1

Client Sample ID: 2629-17-B02 DUP
Date Collected: 10/16/14 11:35
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-23
Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.32		0.32	0.084	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Benzene	<0.016		0.016	0.0048	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Bromodichloromethane	<0.13		0.13	0.022	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Bromoform	<0.13		0.13	0.028	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Bromomethane	<0.13		0.13	0.044	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
2-Butanone (MEK)	<0.32		0.32	0.095	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Carbon disulfide	<0.32		0.32	0.028	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Carbon tetrachloride	<0.064		0.064	0.017	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Chlorobenzene	<0.064		0.064	0.0092	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Chloroethane	<0.13		0.13	0.028	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Chloroform	<0.064		0.064	0.013	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Chloromethane	<0.13		0.13	0.030	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
cis-1,2-Dichloroethene	<0.064		0.064	0.0079	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
cis-1,3-Dichloropropene	<0.064		0.064	0.011	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Dibromochloromethane	<0.13		0.13	0.022	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
1,1-Dichloroethane	<0.064		0.064	0.012	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
1,2-Dichloroethane	<0.064		0.064	0.018	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
1,1-Dichloroethene	<0.064		0.064	0.020	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
1,2-Dichloropropane	<0.064		0.064	0.013	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
1,3-Dichloropropene, Total	<0.064		0.064	0.011	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Ethylbenzene	<0.016		0.016	0.0081	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
2-Hexanone	<0.32		0.32	0.036	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Methylene Chloride	<0.32		0.32	0.044	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
4-Methyl-2-pentanone (MIBK)	<0.32		0.32	0.021	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Methyl tert-butyl ether	<0.13		0.13	0.028	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Styrene	<0.064		0.064	0.0064	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
1,1,2,2-Tetrachloroethane	<0.064		0.064	0.015	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Tetrachloroethene	<0.064		0.064	0.011	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Toluene	<0.016		0.016	0.0074	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
trans-1,2-Dichloroethene	<0.064		0.064	0.016	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
trans-1,3-Dichloropropene	<0.064		0.064	0.013	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
1,1,1-Trichloroethane	<0.064		0.064	0.013	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
1,1,2-Trichloroethane	<0.064		0.064	0.018	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Trichloroethene	<0.032		0.032	0.012	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Vinyl acetate	<0.13		0.13	0.022	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Vinyl chloride	<0.016		0.016	0.0067	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50
Xylenes, Total	<0.032		0.032	0.0044	mg/Kg	☼	10/16/14 11:35	10/27/14 20:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*	*10/16/14 11:35*	*10/27/14 20:16*	*50*
Dibromofluoromethane	*106*		*75 - 120*	*10/16/14 11:35*	*10/27/14 20:16*	*50*
1,2-Dichloroethane-d4 (Surr)	*117*		*75 - 125*	*10/16/14 11:35*	*10/27/14 20:16*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*10/16/14 11:35*	*10/27/14 20:16*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-7

Client Sample ID: 2629-17-B02 DUP
Date Collected: 10/16/14 11:35
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-23
Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
2,4-Dimethylphenol	<0.38	*	0.38	0.15	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Hexachlorocyclopentadiene	<0.78	*	0.78	0.22	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Acenaphthene	**0.0078**	**J**	0.038	0.0069	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Phenanthrene	**0.026**	**J**	0.038	0.0054	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Anthracene	**0.0079**	**J**	0.038	0.0064	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Carbazole	<0.19	*	0.19	0.099	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Fluoranthene	**0.085**		0.038	0.0071	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Pyrene	**0.088**		0.038	0.0076	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Benzo[a]anthracene	**0.037**	**J**	0.038	0.0052	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1

Client Sample ID: 2629-17-B02 DUP
Date Collected: 10/16/14 11:35
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-23
Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.045**		0.038	0.010	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Benzo[b]fluoranthene	**0.057**		0.038	0.0083	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Benzo[k]fluoranthene	**0.025**	**J**	0.038	0.011	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Benzo[a]pyrene	**0.029**	**J**	0.038	0.0074	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Indeno[1,2,3-cd]pyrene	**0.020**	**J**	0.038	0.010	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
Benzo[g,h,i]perylene	**0.022**	**J**	0.038	0.012	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	10/20/14 18:15	10/24/14 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*39*		*25 - 110*	*10/20/14 18:15*	*10/24/14 14:13*	*1*
Phenol-d5	*42*		*31 - 110*	*10/20/14 18:15*	*10/24/14 14:13*	*1*
Nitrobenzene-d5	*33*		*25 - 115*	*10/20/14 18:15*	*10/24/14 14:13*	*1*
2-Fluorobiphenyl	*46*		*25 - 119*	*10/20/14 18:15*	*10/24/14 14:13*	*1*
2,4,6-Tribromophenol	*44*		*35 - 137*	*10/20/14 18:15*	*10/24/14 14:13*	*1*
Terphenyl-d14	*61*		*36 - 134*	*10/20/14 18:15*	*10/24/14 14:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Arsenic	**7.0**		0.59	0.12	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Barium	**100**		0.59	0.063	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Beryllium	**0.59**		0.23	0.047	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Boron	**2.5**	**J**	2.9	0.59	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Cadmium	**0.24**	**B**	0.12	0.015	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Calcium	**5800**		12	3.2	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Chromium	**15**	**B**	0.59	0.068	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Cobalt	**12**		0.29	0.059	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Copper	**15**		0.59	0.12	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Iron	**18000**		12	4.8	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Lead	**19**	**B**	0.29	0.087	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Magnesium	**5100**	**B**	5.9	1.2	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Manganese	**780**		0.59	0.12	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Nickel	**18**		0.59	0.12	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Potassium	**1100**		29	1.8	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Sodium	**460**		59	7.9	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Thallium	<0.59		0.59	0.25	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Vanadium	**24**		0.29	0.043	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1
Zinc	**52**	**B**	1.2	0.24	mg/Kg	☼	11/04/14 10:10	11/05/14 02:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		11/04/14 10:45	11/05/14 04:39	1
Lead	<0.038		0.038	0.038	mg/L		11/04/14 10:45	11/06/14 23:36	5

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86298-7

Client Sample ID: 2629-17-B02 DUP
Date Collected: 10/16/14 11:35
Date Received: 10/17/14 12:10

Lab Sample ID: 500-86298-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.32	J	0.50	0.050	mg/L		10/28/14 09:00	10/29/14 00:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/28/14 09:00	10/29/14 00:18	1
Boron	1.3		0.10	0.050	mg/L		10/28/14 09:00	10/29/14 00:18	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/28/14 09:00	10/29/14 00:18	1
Chromium	0.016	J	0.025	0.010	mg/L		10/28/14 09:00	10/29/14 00:18	1
Cobalt	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 00:18	1
Iron	9.4		0.20	0.20	mg/L		10/28/14 09:00	10/29/14 00:18	1
Lead	0.021		0.0075	0.0075	mg/L		10/28/14 09:00	10/29/14 00:18	1
Manganese	0.10		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 00:18	1
Nickel	0.010	J	0.025	0.010	mg/L		10/28/14 09:00	10/29/14 00:18	1
Selenium	<0.050		0.050	0.020	mg/L		10/28/14 09:00	10/29/14 00:18	1
Silver	<0.025		0.025	0.010	mg/L		10/28/14 09:00	10/29/14 00:18	1
Zinc	0.29		0.10	0.020	mg/L		10/28/14 09:00	10/29/14 00:18	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		10/28/14 09:00	10/29/14 19:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/28/14 09:00	10/29/14 19:41	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		10/28/14 11:15	10/29/14 07:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033	B	0.019	0.0076	mg/Kg	☼	10/22/14 11:00	10/23/14 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.99		0.200	0.200	SU			11/03/14 16:46	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

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

Metals

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

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CHAIN OF CUSTODY RECORD

ANDREWS ENGINEERING INC

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: IL 59 W. Chgo Dupage Co Project No.: IDOT 2013-092 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other Sampler: KAW / AH

COC No.: 1 of 1

Lab Job No.: 500-86298

Sample Temp: 3.2, 2.8, 2.5

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.

Matrix Key:

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
21	2629-17-B01	10/16/14	11:45	S	X	X					X	X	X	X						0-5'
22	2629-17-B02	10/16/14	11:30	S	X	X					X	X	X	X						0-5'
23	2629-17-B02 DUP	10/16/14	11:35	S	X	X					X	X	X	X						0-5'

Relinquished by: Ken A. Wagner (KEI)	Date/Time 10/16/14 4:05	Received by: Alex Hopper	Date/Time 10/16/14 4:10
Relinquished by: Alex Hopper	Date/Time 10/17/14 0910	Received by:	Date/Time 10/17/14 0910
Relinquished by:	Date/Time 10/17/14 1210	Received by: Sherri Scott	Date/Time 10/17/14 1210

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663 Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

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

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

I. Source Location Information

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

Project Name: FAP 338 (IL 59) at IL 38 Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
705 E. Roosevelt Road

City: West Chicago State: IL Zip Code: 60185

County: DuPage Township: Winfield

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

Latitude: 41.86245 (Decimal Degrees) Longitude: -88.19466 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

IEPA BOL #'s: 0430900005, 0430900049, and 0430905067

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

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 338 (IL 59) at IL 38

Latitude: 41.86245 Longitude: -88.19466

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION 2629-18-B01 WAS SAMPLED ADJACENT TO SITE NO. 2629-18. SEE FIGURE 2 AND TABLE 3h OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-86629-1

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

I, Kurt T. Fischer, L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

1/21/15
Date:

LICENSED PROFESSIONAL GEOLOGIST
KURT T. FISCHER
196-000881
ILLINOIS

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

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

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

- If all samples at a site were below the most stringent MAC, the notation **“No Contaminants of Concern Noted”** is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2629-18
Vacant Building

Sample ID	2629-18-B01	[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5						
Sample Date	10/23/2014						
PID	0						
Sample pH	8.18						
Matrix	Soil						
No Contaminants of Concern Noted.							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-86629-1
Client Project/Site: IDOT - IL 59 - WO 092

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

Attn: Ms. Colleen Grey

Authorized for release by:
11/18/2014 9:06:08 AM

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

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86629-1

Client Sample ID: 2629-18-B01
Date Collected: 10/23/14 10:00
Date Received: 10/24/14 06:00

Lab Sample ID: 500-86629-1
Matrix: Solid
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.013		0.0040	0.0017	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Benzene	<0.0040		0.0040	0.00055	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Bromodichloromethane	<0.0040		0.0040	0.00069	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Bromoform	<0.0040		0.0040	0.00092	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Bromomethane	<0.0040		0.0040	0.0012	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Carbon disulfide	<0.0040		0.0040	0.00060	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Carbon tetrachloride	<0.0040		0.0040	0.00073	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Chlorobenzene	<0.0040		0.0040	0.00041	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Chloroethane	<0.0040		0.0040	0.0011	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Chloroform	<0.0040		0.0040	0.00046	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Chloromethane	<0.0040		0.0040	0.00084	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00056	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00052	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Dibromochloromethane	<0.0040		0.0040	0.00070	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
1,1-Dichloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
1,1-Dichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
1,2-Dichloropropane	<0.0040		0.0040	0.00061	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00052	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Ethylbenzene	<0.0040		0.0040	0.00081	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0010	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00066	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Styrene	<0.0040		0.0040	0.00052	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Tetrachloroethene	<0.0040		0.0040	0.00061	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Toluene	<0.0040		0.0040	0.00056	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00055	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00072	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00054	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Trichloroethene	<0.0040		0.0040	0.00066	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Vinyl acetate	<0.0040		0.0040	0.00063	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Vinyl chloride	<0.0040		0.0040	0.00084	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1
Xylenes, Total	<0.0080		0.0080	0.00036	mg/Kg	☼	10/24/14 18:45	10/27/14 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*	*10/24/14 18:45*	*10/27/14 13:13*	*1*
Dibromofluoromethane	*94*		*75 - 120*	*10/24/14 18:45*	*10/27/14 13:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*10/24/14 18:45*	*10/27/14 13:13*	*1*
Toluene-d8 (Surr)	*98*		*75 - 122*	*10/24/14 18:45*	*10/27/14 13:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86629-1

Client Sample ID: 2629-18-B01
Date Collected: 10/23/14 10:00
Date Received: 10/24/14 06:00

Lab Sample ID: 500-86629-1
Matrix: Solid
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Hexachlorocyclopentadiene	<0.77	*	0.77	0.22	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
3-Nitroaniline	<0.38	*	0.38	0.12	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Phenanthrene	**0.025**	**J**	0.038	0.0053	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Anthracene	**0.0099**	**J**	0.038	0.0064	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Carbazole	<0.19	*	0.19	0.098	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Fluoranthene	**0.051**		0.038	0.0071	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Pyrene	**0.053**		0.038	0.0076	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Benzo[a]anthracene	**0.034**	**J**	0.038	0.0051	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1

Client Sample ID: 2629-18-B01
Date Collected: 10/23/14 10:00
Date Received: 10/24/14 06:00

Lab Sample ID: 500-86629-1
Matrix: Solid
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.040**		0.038	0.010	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Benzo[b]fluoranthene	**0.048**		0.038	0.0082	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Benzo[k]fluoranthene	**0.020**	**J**	0.038	0.011	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Benzo[a]pyrene	**0.030**	**J**	0.038	0.0074	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Indeno[1,2,3-cd]pyrene	**0.026**	**J**	0.038	0.0099	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
Benzo[g,h,i]perylene	**0.040**		0.038	0.012	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	10/29/14 07:43	11/05/14 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*63*		*25 - 110*	*10/29/14 07:43*	*11/05/14 14:55*	*1*
Phenol-d5	*63*		*31 - 110*	*10/29/14 07:43*	*11/05/14 14:55*	*1*
Nitrobenzene-d5	*62*		*25 - 115*	*10/29/14 07:43*	*11/05/14 14:55*	*1*
2-Fluorobiphenyl	*69*		*25 - 119*	*10/29/14 07:43*	*11/05/14 14:55*	*1*
2,4,6-Tribromophenol	*100*		*35 - 137*	*10/29/14 07:43*	*11/05/14 14:55*	*1*
Terphenyl-d14	*93*		*36 - 134*	*10/29/14 07:43*	*11/05/14 14:55*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Arsenic	**9.3**		0.54	0.11	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Barium	**42**		0.54	0.058	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Beryllium	**0.59**		0.22	0.043	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Boron	**6.8**		2.7	0.54	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Cadmium	**0.44**		0.11	0.014	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Calcium	**46000**	**B**	11	2.9	mg/Kg	☼	11/10/14 10:05	11/12/14 21:45	1
Chromium	**14**	**B**	0.54	0.063	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Cobalt	**7.2**		0.27	0.054	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Copper	**24**		0.54	0.11	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Iron	**18000**		11	4.5	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Lead	**30**		0.27	0.081	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Magnesium	**31000**	**B**	5.4	1.1	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Manganese	**270**		0.54	0.11	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Nickel	**18**		0.54	0.11	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Potassium	**1400**		27	1.6	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Sodium	**2900**		54	7.3	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Thallium	**0.83**		0.54	0.23	mg/Kg	☼	11/10/14 10:05	11/12/14 21:45	1
Vanadium	**18**		0.27	0.040	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1
Zinc	**51**	**B**	1.1	0.22	mg/Kg	☼	11/10/14 10:05	11/11/14 18:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/14 10:15	11/17/14 12:46	1
Chromium	<0.025		0.025	0.010	mg/L		11/16/14 10:15	11/17/14 12:46	1
Iron	<0.20		0.20	0.20	mg/L		11/16/14 10:15	11/17/14 12:46	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86629-1

Client Sample ID: 2629-18-B01
Date Collected: 10/23/14 10:00
Date Received: 10/24/14 06:00

Lab Sample ID: 500-86629-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0083		0.0075	0.0075	mg/L		11/16/14 10:15	11/17/14 12:46	1
Manganese	6.3	B	0.025	0.010	mg/L		11/16/14 10:15	11/17/14 12:46	1
Nickel	0.018	J	0.025	0.010	mg/L		11/16/14 10:15	11/17/14 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64		0.50	0.050	mg/L		11/07/14 07:25	11/08/14 06:01	1
Beryllium	0.0051		0.0040	0.0040	mg/L		11/07/14 07:25	11/08/14 06:01	1
Boron	1.2	B	0.30	0.050	mg/L		11/07/14 07:25	11/08/14 06:01	1
Cadmium	0.0042	J	0.0050	0.0020	mg/L		11/07/14 07:25	11/08/14 06:01	1
Chromium	0.12		0.025	0.010	mg/L		11/07/14 07:25	11/08/14 06:01	1
Cobalt	0.061		0.025	0.010	mg/L		11/07/14 07:25	11/08/14 06:01	1
Iron	160		0.20	0.20	mg/L		11/07/14 07:25	11/08/14 06:01	1
Lead	0.30		0.0075	0.0075	mg/L		11/07/14 07:25	11/08/14 17:39	1
Manganese	1.4		0.025	0.010	mg/L		11/07/14 07:25	11/08/14 06:01	1
Nickel	0.18		0.025	0.010	mg/L		11/07/14 07:25	11/08/14 06:01	1
Silver	<0.025		0.025	0.010	mg/L		11/07/14 07:25	11/08/14 06:01	1
Zinc	0.78	B	0.10	0.020	mg/L		11/07/14 07:25	11/08/14 06:01	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		11/16/14 10:15	11/17/14 14:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/07/14 07:25	11/07/14 18:23	1
Thallium	0.0024		0.0020	0.0020	mg/L		11/07/14 07:25	11/07/14 18:23	1
Selenium	<0.050		0.050	0.010	mg/L		11/07/14 07:25	11/07/14 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/06/14 11:30	11/07/14 09:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.019	0.0074	mg/Kg	☼	10/28/14 14:30	10/29/14 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.53		0.200	0.200	SU			11/06/14 14:30	1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds 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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control 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.
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

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

CHAIN OF CUSTODY RECORD

500-86629

Client Contact	Laboratory		
Andrews Engineering, I 3300 Ginger Creek Driv 500-86629 COC 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: IL 59 W. Chicago/DuPage Co. Project No.: IDOT2013-092 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ____ Other **Sampler:**	COC No.: 1 of 2 Lab Job No.: 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.

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

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
1	2629-18-B01	10/23	10:00	S	X	X					X	X	X	X						0-5'
				S	X	X					X	X	X	X						
				S	X	X					X	X	X	X						

Relinquished by:		Date/Time 10/23/14 3:20	Received by: TA	10/23/14	Date/Time 1500
Relinquished by: TA	10/23/14	Date/Time 1800	Received by: TA	10/24/14	Date/Time 0600
Relinquished by:		Date/Time	Received by:		Date/Time

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663 Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

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

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

I. Source Location Information

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

Project Name: FAP 338 (IL 59) at IL 38 Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
700 E. Roosevelt Road

City: West Chicago State: IL Zip Code: 60185

County: DuPage Township: Winfield

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

Latitude: 41.86084 (Decimal Degrees) Longitude: -88.19462 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

IEPA Site Number(s), if assigned: BOL: 0430905862 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 338 (IL 59) at IL 38

Latitude: 41.86084 Longitude: -88.19462

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION 2629-19-B01 WAS SAMPLED ADJACENT TO SITE NO. 2629-19. SEE FIGURE 2 AND TABLE 3i OF THE REVISED PRELIMINARY SITE INVESTIGATION.

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

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-86629-2

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

I, Kurt T. Fischer, L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation, Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

1/21/15
Date:

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

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3´-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

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

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

- If all samples at a site were below the most stringent MAC, the notation **“No Contaminants of Concern Noted”** is used.

The laboratory report for site soils follows this summary table.

ISGS Site 2629-19

Grant and Power Landscaping

Sample ID	2629-19-B01	[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-7						
Sample Date	10/23/2014						
PID	0						
Sample pH	7.95						
Matrix	Soil						
No Contaminants of Concern Noted.							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-86629-2
Client Project/Site: IDOT - IL 59 - WO 092

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

Attn: Ms. Colleen Grey

Authorized for release by:
11/18/2014 9:07:01 AM

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

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86629-2

Client Sample ID: 2629-19-B01
Date Collected: 10/23/14 08:40
Date Received: 10/24/14 06:00

Lab Sample ID: 500-86629-2
Matrix: Solid
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.036		0.0053	0.0023	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Benzene	<0.0053		0.0053	0.00073	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Bromodichloromethane	<0.0053		0.0053	0.00091	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
2-Butanone (MEK)	0.0054		0.0053	0.0019	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Carbon disulfide	<0.0053		0.0053	0.00079	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Carbon tetrachloride	<0.0053		0.0053	0.00097	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Chlorobenzene	<0.0053		0.0053	0.00054	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Chloroethane	<0.0053		0.0053	0.0014	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00070	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Dibromochloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
1,1-Dichloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
1,1-Dichloroethene	<0.0053		0.0053	0.00086	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
1,2-Dichloropropane	<0.0053		0.0053	0.00081	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00070	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00088	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Styrene	<0.0053		0.0053	0.00070	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Tetrachloroethene	<0.0053		0.0053	0.00081	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Toluene	<0.0053		0.0053	0.00074	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00095	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Trichloroethene	<0.0053		0.0053	0.00088	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Vinyl acetate	<0.0053		0.0053	0.00083	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	10/24/14 18:45	10/27/14 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*	*10/24/14 18:45*	*10/27/14 13:37*	*1*
Dibromofluoromethane	*100*		*75 - 120*	*10/24/14 18:45*	*10/27/14 13:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*10/24/14 18:45*	*10/27/14 13:37*	*1*
Toluene-d8 (Surr)	*98*		*75 - 122*	*10/24/14 18:45*	*10/27/14 13:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.092	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86629-2

Client Sample ID: 2629-19-B01
Date Collected: 10/23/14 08:40
Date Received: 10/24/14 06:00

Lab Sample ID: 500-86629-2
Matrix: Solid
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Hexachlorocyclopentadiene	<0.83	*	0.83	0.24	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
3-Nitroaniline	<0.41	*	0.41	0.13	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.33	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Phenanthrene	**0.015**	**J**	0.041	0.0058	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Carbazole	<0.21	*	0.21	0.11	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Fluoranthene	**0.026**	**J**	0.041	0.0077	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Pyrene	**0.025**	**J**	0.041	0.0082	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Benzo[a]anthracene	**0.015**	**J**	0.041	0.0056	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1

Client Sample ID: 2629-19-B01
Date Collected: 10/23/14 08:40
Date Received: 10/24/14 06:00

Lab Sample ID: 500-86629-2
Matrix: Solid
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.021	J	0.041	0.011	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Benzo[b]fluoranthene	0.023	J	0.041	0.0089	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Benzo[a]pyrene	0.015	J	0.041	0.0080	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Indeno[1,2,3-cd]pyrene	0.012	J	0.041	0.011	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
Benzo[g,h,i]perylene	0.024	J	0.041	0.013	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	10/29/14 07:43	11/05/14 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*55*		*25 - 110*	*10/29/14 07:43*	*11/05/14 15:15*	*1*
Phenol-d5	*57*		*31 - 110*	*10/29/14 07:43*	*11/05/14 15:15*	*1*
Nitrobenzene-d5	*55*		*25 - 115*	*10/29/14 07:43*	*11/05/14 15:15*	*1*
2-Fluorobiphenyl	*63*		*25 - 119*	*10/29/14 07:43*	*11/05/14 15:15*	*1*
2,4,6-Tribromophenol	*96*		*35 - 137*	*10/29/14 07:43*	*11/05/14 15:15*	*1*
Terphenyl-d14	*83*		*36 - 134*	*10/29/14 07:43*	*11/05/14 15:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Arsenic	5.2		0.62	0.12	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Barium	70		0.62	0.067	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Beryllium	0.37		0.25	0.050	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Boron	2.7	J	3.1	0.62	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Cadmium	0.35		0.12	0.016	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Calcium	8200	B	12	3.4	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Chromium	8.1	B	0.62	0.072	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Cobalt	5.1		0.31	0.062	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Copper	8.5		0.62	0.12	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Iron	9900		12	5.1	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Lead	28		0.31	0.093	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Magnesium	5300	B	6.2	1.3	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Manganese	460		0.62	0.12	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Nickel	6.9		0.62	0.12	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Potassium	550		31	1.9	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Selenium	0.28	J B	0.62	0.22	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Sodium	1100		62	8.4	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Thallium	0.92		0.62	0.26	mg/Kg	☼	11/10/14 10:05	11/12/14 21:58	1
Vanadium	15		0.31	0.046	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1
Zinc	36	B	1.2	0.25	mg/Kg	☼	11/10/14 10:05	11/11/14 18:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.98		0.20	0.20	mg/L		11/16/14 10:15	11/17/14 12:53	1
Lead	0.018		0.0075	0.0075	mg/L		11/16/14 10:15	11/17/14 12:53	1
Manganese	17	B	0.025	0.010	mg/L		11/16/14 10:15	11/17/14 12:53	1

Client: Andrews Engineering Inc.
Project/Site: IDOT - IL 59 - WO 092

TestAmerica Job ID: 500-86629-2

Client Sample ID: 2629-19-B01
Date Collected: 10/23/14 08:40
Date Received: 10/24/14 06:00

Lab Sample ID: 500-86629-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.54		0.50	0.050	mg/L		11/07/14 07:25	11/08/14 06:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/07/14 07:25	11/08/14 06:19	1
Boron	1.2	B	0.30	0.050	mg/L		11/07/14 07:25	11/08/14 06:19	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		11/07/14 07:25	11/08/14 06:19	1
Chromium	0.050		0.025	0.010	mg/L		11/07/14 07:25	11/08/14 06:19	1
Cobalt	0.018	J	0.025	0.010	mg/L		11/07/14 07:25	11/08/14 06:19	1
Iron	46		0.20	0.20	mg/L		11/07/14 07:25	11/08/14 06:19	1
Lead	0.11		0.0075	0.0075	mg/L		11/07/14 07:25	11/08/14 18:04	1
Manganese	0.63		0.025	0.010	mg/L		11/07/14 07:25	11/08/14 06:19	1
Nickel	0.038		0.025	0.010	mg/L		11/07/14 07:25	11/08/14 06:19	1
Silver	<0.025		0.025	0.010	mg/L		11/07/14 07:25	11/08/14 06:19	1
Zinc	0.44	B	0.10	0.020	mg/L		11/07/14 07:25	11/08/14 06:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		11/07/14 07:25	11/07/14 18:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/07/14 07:25	11/07/14 18:37	1
Selenium	<0.050		0.050	0.010	mg/L		11/07/14 07:25	11/07/14 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		11/06/14 11:30	11/07/14 09:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0076	mg/Kg	☼	10/28/14 14:30	10/29/14 10:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.95		0.200	0.200	SU			11/06/14 14:33	1

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

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

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

500-86029

Client Contact	Laboratory	Project	
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: IL59 W Chap DuPage Co Project No.: IDOT 2013-092 TAT: ☑ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ___ Other Sampler:	COC No.: 2 of 2 Lab Job No.: 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.

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	pH	% Solids	Waste Characterization					Comments
2	2629-19-B01	10/23	8:40	S	X	X					X	X	X	X						0-7'
3	2629-19-B02-1	10/23	9:15	S	X	X					X	X	X	X						0-6.5'
4	2629-19-B02-2	10/23	9:20	S	X	X					X	X	X	X						6.5-13'
5	2629-19-B03	10/23	9:35	S	X	X					X	X	X	X						0-7'

Relinquished by:	Date/Time	Received by:	Date/Time
[signature]	10/23/14 3:44pm	[signature] TA 10/23/14	1536
[signature] TA 10/23/14	1800	[signature] TA 10/24/14	0600