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 332: IL Route 1 (Dixie Highway) Office Phone Number, if available:

Physical Site Location (address, incldduding number and street):
27500-28000 blocks of S. Dixie Highway, (ISGS Site No. 3140-4)

City: Beecher State: IL Zip Code:

County: Will Township:

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

Latitude: 41.386768803 (Decimal Degrees) Longitude: -87.626070304 (-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 332: IL Route 1 (Dixie Highway)

Latitude: 41.386768803 Longitude: -87.626070304

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 A4-1, A4-2, AND A4-9 WERE SAMPLED ADJACENT TO ISGS SITE No. 3140-4. SEE FIGURE 3-9 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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 - JOB ID: 500-123558-1 AND 500-123501-1.
ALSO SEE FIGURE 4-9 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, Michael Castillo, 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: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

Michael Castillo, P.G.
Printed Name:

Michael Castillo
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

29 March 2017
Date:

LICENSED PROFESSIONAL GEOLOGIST
MICHAEL A. CASTILLO
196.001276
ILLINOIS

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

Summary Table of ISGS Site No. 3140-4
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road
and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	A4-1(0-1)-020717	A4-2(0-1)-020717	A4-9(0-1)-020617	**Soil Reference Concentrations[A]**
Sample Date	2/7/2017	2/7/2017	2/6/2017	
Location ID	A4-1	A4-2	A4-9	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-4	3140-4	3140-4	
Parameter				
Laboratory pH (s.u.)	8.7	8.5	7.7	<6.25, >9.0
VOCs	None Detected			
SVOCs (ug/kg)				
Anthracene	ND	ND	7.1 J	1.2E+07
Benzo(a)anthracene	ND	21 J	62	900 / 1100 / 1800
Benzo(a)pyrene	ND	26 J	68	90 / 1300 / 2100
Benzo(b)fluoranthene	12 J	53	100	900 / 1500 /2100
Benzo(g,h,i)perylene	14 J	18 J	38	---
Benzo(k)fluoranthene	ND	12 J	46	9000
Chrysene	ND	30 J	71	88000
Dibenzo(a,h)anthracene	ND	ND	8.5 J	90 / 200 / 420
Fluoranthene	9.2 J	59	120	3100000
Indeno(1,2,3-cd)pyrene	ND	12 J	32 J	900 / 900 / 1600
Phenanthrene	ND	24 J	31 J	
Pyrene	ND	47	98	2300000
Total Metals (mg/kg)				
Antimony, Total	0.48 J	0.25 J	0.4 J	5
Arsenic, Total	6.9	6.1	6.3	11.3 / 13.0
Barium, Total	59	47	70	1500
Beryllium, Total	0.71	0.54	0.56	22
Cadmium, Total	0.21	0.36	0.24	5.2
Calcium, Total	21000 B	13000 B	71000 B	---
Chromium, Total	19 B	20 B	18	21
Cobalt, Total	12	9.1	11	20
Copper, Total	19	20	21	2900
Iron, Total	19000 B	15000 B	17000 B	15000 / 15900
Lead, Total	24 B	100 B	40	107
Magnesium, Total	17000 B	9600 B	28000 B	325000
Manganese, Total	350 B	270 B	330	630 / 636
Mercury, Total	0.018 J	0.028	0.018	0.89
Nickel, Total	33	23	30	100
Potassium, Total	2800 B	1500 B	1700	---
Selenium, Total	ND	0.45 J	ND	1.3
Silver, Total	ND	ND	ND	4.4
Sodium, Total	1600	1900	980	---
Thallium, Total	ND	ND	ND	2.6
Vanadium, Total	20	18	16	550
Zinc, Total	73	74	72 B	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.45 J	0.29 J	0.51	2
Cadmium, TCLP	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	0.018 J	1
Copper, TCLP	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	2	1.3	3.4	0.15
Nickel, TCLP	0.017 J	ND	0.03	0.1
Selenium, TCLP	ND	ND	ND	0.05
Zinc, TCLP	0.033 J	0.033 J	ND	5

Summary Table of ISGS Site No. 3140-4
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	A4-1(0-1)-020717	A4-2(0-1)-020717	A4-9(0-1)-020617	**Soil Reference Concentrations[A]**
Sample Date	2/7/2017	2/7/2017	2/6/2017	
Location ID	A4-1	A4-2	A4-9	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-4	3140-4	3140-4	
Parameter				
SPLP Metals (mg/l)				
Arsenic, SPLP	0.12	0.085	0.038 J	0.05
Barium, SPLP	0.97	0.73	0.58	2
Beryllium, SPLP	0.012	0.011	0.0059	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.26	0.26	0.14	0.1
Cobalt, SPLP	0.084	0.073	0.034	1
Copper, SPLP	0.33	0.3	0.14	0.65
Iron, SPLP	290	250	120	5
Lead, SPLP	0.26	0.43	0.096	0.0075
Manganese, SPLP	1.5	1.2	0.61	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.37	0.29	0.16	0.1
Zinc, SPLP	1.3	0.81	0.38 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for MSA counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

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: 500-123558-1
Client Project/Site: IDOT - Illinois Route 1 - WO 053

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
2/15/2017 1:04:05 PM

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

Client Sample ID: A4-1(0-1)-020717
Date Collected: 02/07/17 09:30
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-10
Matrix: Solid
Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<17		17	7.6	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Benzene	<1.7		1.7	0.44	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Bromodichloromethane	<1.7		1.7	0.36	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Bromoform	<1.7		1.7	0.51	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Bromomethane	<4.4		4.4	1.6	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Carbon disulfide	<4.4		4.4	0.91	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Carbon tetrachloride	<1.7		1.7	0.51	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Chlorobenzene	<1.7		1.7	0.64	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Chloroethane	<4.4		4.4	1.3	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Chloroform	<1.7		1.7	0.61	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Chloromethane	<4.4		4.4	1.8	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
cis-1,2-Dichloroethene	<1.7		1.7	0.49	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
cis-1,3-Dichloropropene	<1.7		1.7	0.53	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Dibromochloromethane	<1.7		1.7	0.57	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
1,1-Dichloroethane	<1.7		1.7	0.60	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
1,2-Dichloroethane	<4.4		4.4	1.4	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
1,1-Dichloroethene	<1.7		1.7	0.60	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
1,2-Dichloropropane	<1.7		1.7	0.45	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
1,3-Dichloropropene, Total	<1.7		1.7	0.61	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Ethylbenzene	<1.7		1.7	0.83	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
2-Hexanone	<4.4		4.4	1.4	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Methylene Chloride	<4.4		4.4	1.7	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Methyl Ethyl Ketone	<4.4		4.4	1.9	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
methyl isobutyl ketone	<4.4		4.4	1.3	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Methyl tert-butyl ether	<1.7		1.7	0.51	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Styrene	<1.7		1.7	0.53	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.56	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Tetrachloroethene	<1.7		1.7	0.59	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Toluene	<1.7		1.7	0.44	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
trans-1,2-Dichloroethene	<1.7		1.7	0.77	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
trans-1,3-Dichloropropene	<1.7		1.7	0.61	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
1,1,1-Trichloroethane	<1.7		1.7	0.59	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
1,1,2-Trichloroethane	<1.7		1.7	0.75	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Trichloroethene	<1.7		1.7	0.59	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Vinyl chloride	<1.7		1.7	0.77	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1
Xylenes, Total	<3.5		3.5	0.56	ug/Kg	☼	02/08/17 09:20	02/13/17 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 120*	*02/08/17 09:20*	*02/13/17 13:33*	*1*
Dibromofluoromethane	*104*		*75 - 120*	*02/08/17 09:20*	*02/13/17 13:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*69 - 134*	*02/08/17 09:20*	*02/13/17 13:33*	*1*
Toluene-d8 (Surr)	*100*		*75 - 123*	*02/08/17 09:20*	*02/13/17 13:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<210		210	46	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
1,2-Dichlorobenzene	<210		210	51	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
1,3-Dichlorobenzene	<210		210	48	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
1,4-Dichlorobenzene	<210		210	54	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
2,2'-oxybis[1-chloropropane]	<210		210	49	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1

Client Sample ID: A4-1(0-1)-020717
Date Collected: 02/07/17 09:30
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-10
Matrix: Solid
Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<420		420	97	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
2,4,6-Trichlorophenol	<420		420	150	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
2,4-Dichlorophenol	<420		420	100	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
2,4-Dimethylphenol	<420		420	160	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
2,4-Dinitrophenol	<860		860	750	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
2,4-Dinitrotoluene	<210		210	68	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
2,6-Dinitrotoluene	<210		210	84	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
2-Chloronaphthalene	<210		210	47	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
2-Chlorophenol	<210		210	73	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
2-Methylnaphthalene	<86		86	7.8	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
2-Methylphenol	<210		210	68	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
2-Nitroaniline	<210		210	57	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
2-Nitrophenol	<420		420	100	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
3 & 4 Methylphenol	<210		210	71	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
3,3'-Dichlorobenzidine	<210		210	59	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
3-Nitroaniline	<420		420	130	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
4,6-Dinitro-2-methylphenol	<860		860	340	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
4-Bromophenyl phenyl ether	<210		210	56	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
4-Chloro-3-methylphenol	<420		420	140	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
4-Chloroaniline	<860		860	200	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
4-Chlorophenyl phenyl ether	<210		210	50	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
4-Nitroaniline	<420		420	180	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
4-Nitrophenol	<860		860	400	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Acenaphthene	<42		42	7.6	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Acenaphthylene	<42		42	5.6	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Anthracene	<42		42	7.1	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Benzo[a]anthracene	<42		42	5.7	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Benzo[a]pyrene	<42		42	8.2	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Benzo[b]fluoranthene	**12**	**J**	42	9.2	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Benzo[g,h,i]perylene	**14**	**J**	42	14	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Benzo[k]fluoranthene	<42		42	13	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Bis(2-chloroethoxy)methane	<210		210	43	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Bis(2-chloroethyl)ether	<210		210	64	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Bis(2-ethylhexyl) phthalate	<210		210	78	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Butyl benzyl phthalate	<210		210	81	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Carbazole	<210		210	110	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Chrysene	<42		42	12	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Dibenz(a,h)anthracene	<42		42	8.2	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Dibenzofuran	<210		210	50	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Diethyl phthalate	<210		210	72	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Dimethyl phthalate	<210		210	56	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Di-n-butyl phthalate	<210		210	65	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Di-n-octyl phthalate	<210		210	69	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Fluoranthene	**9.2**	**J**	42	7.9	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Fluorene	<42		42	6.0	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Hexachlorobenzene	<86		86	9.8	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Hexachlorobutadiene	<210		210	67	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Hexachlorocyclopentadiene	<860		860	240	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Hexachloroethane	<210		210	65	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1

Client Sample ID: A4-1(0-1)-020717
Date Collected: 02/07/17 09:30
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-10
Matrix: Solid
Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<42		42	11	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Isophorone	<210		210	48	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Naphthalene	<42		42	6.5	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Nitrobenzene	<42		42	11	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
N-Nitrosodi-n-propylamine	<86		86	52	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
N-Nitrosodiphenylamine	<210		210	50	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Pentachlorophenol	<860		860	680	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Phenanthrene	<42		42	5.9	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Phenol	<210		210	94	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1
Pyrene	<42		42	8.4	ug/Kg	☼	02/10/17 07:09	02/13/17 11:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*101*		*25 - 130*	*02/10/17 07:09*	*02/13/17 11:02*	*1*
2-Fluorobiphenyl	*85*		*42 - 115*	*02/10/17 07:09*	*02/13/17 11:02*	*1*
2-Fluorophenol	*86*		*40 - 130*	*02/10/17 07:09*	*02/13/17 11:02*	*1*
Nitrobenzene-d5	*78*		*33 - 124*	*02/10/17 07:09*	*02/13/17 11:02*	*1*
Phenol-d5	*82*		*36 - 123*	*02/10/17 07:09*	*02/13/17 11:02*	*1*
Terphenyl-d14	*97*		*25 - 150*	*02/10/17 07:09*	*02/13/17 11:02*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/13/17 08:21	02/13/17 17:01	1
Barium	**0.45**	**J**	0.50	0.050	mg/L		02/13/17 08:21	02/13/17 17:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/17 08:21	02/13/17 17:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:21	02/13/17 17:01	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 17:01	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 17:01	1
Copper	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 17:01	1
Iron	<0.40		0.40	0.20	mg/L		02/13/17 08:21	02/13/17 17:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/17 08:21	02/13/17 17:01	1
Manganese	**2.0**		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 17:01	1
Nickel	**0.017**	**J**	0.025	0.010	mg/L		02/13/17 08:21	02/13/17 17:01	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:21	02/13/17 17:01	1
Silver	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 17:01	1
Zinc	**0.033**	**J**	0.50	0.020	mg/L		02/13/17 08:21	02/13/17 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.12**		0.050	0.010	mg/L		02/11/17 10:11	02/13/17 15:13	1
Barium	**0.97**		0.50	0.050	mg/L		02/11/17 10:11	02/13/17 15:13	1
Beryllium	**0.012**		0.0040	0.0040	mg/L		02/11/17 10:11	02/13/17 15:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/17 10:11	02/13/17 15:13	1
Chromium	**0.26**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:13	1
Cobalt	**0.084**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:13	1
Copper	**0.33**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:13	1
Iron	**290**		0.40	0.20	mg/L		02/11/17 10:11	02/13/17 15:13	1
Lead	**0.26**		0.0075	0.0075	mg/L		02/11/17 10:11	02/13/17 15:13	1
Manganese	**1.5**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:13	1
Nickel	**0.37**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:13	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/17 10:11	02/13/17 15:13	1

Client Sample ID: A4-1(0-1)-020717
Date Collected: 02/07/17 09:30
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-10
Matrix: Solid
Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:13	1
Zinc	**1.3**		0.50	0.020	mg/L		02/11/17 10:11	02/13/17 15:13	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.48**	**J**	1.1	0.23	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Arsenic	**6.9**		0.56	0.26	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Barium	**59**		0.56	0.10	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Beryllium	**0.71**		0.22	0.048	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Cadmium	**0.21**		0.11	0.032	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Calcium	**21000**	**B**	11	3.6	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Chromium	**19**	**B**	0.56	0.096	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Cobalt	**12**		0.28	0.063	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Copper	**19**		0.56	0.12	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Iron	**19000**	**B**	11	4.3	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Lead	**24**	**B**	0.28	0.14	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Magnesium	**17000**	**B**	5.6	2.3	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Manganese	**350**	**B**	0.56	0.11	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Nickel	**33**		0.56	0.15	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Potassium	**2800**	**B**	28	4.6	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Sodium	**1600**		56	7.4	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Vanadium	**20**		0.28	0.082	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1
Zinc	**73**		1.1	0.35	mg/Kg	☼	02/10/17 08:30	02/11/17 04:30	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/13/17 11:45	02/14/17 11:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/13/17 13:04	02/14/17 09:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**18**	**J**	19	9.9	ug/Kg	☼	02/09/17 16:15	02/10/17 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.7**		0.2	0.2	SU			02/11/17 11:52	1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
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)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123558-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.5

500-123558 COC

(optional)

Report To
Contact: S. Babusirkumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123558

Chain of Custody Number:

Page 3 of 5

Temperature °C of Cooler:

Client	Client Project #	Preservative
Weston Solutions		
Project Name: IDOT 053		Parameter
Project Location/State: Beecher/IL	Lab Project #	
Sampler: A. Tuckaste	Lab PM	

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

	Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP SPLP metals	pH					Comments
1	2		AA4-13(0-1)-020717	2/7/17	1453	6	S	X	X	X	X	X					
2	2		FA5-1(0-1)-020717	2/7/17	1515	6	S	X	X	X	X	X					
3	2		FA5-2(0-1)-020717	2/7/17	1528	6	S	X	X	X	X	X					
4	2		FA5-2(0-1)-020717D	2/7/17	1528	6	S	X	X	X	X	X					

AT

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	2/7/17	16:56			02/07/17	16:56
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact: Sr. Babasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7252
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123558
Chain of Custody Number:
Page 4 of 5
Temperature °C of Cooler: 3.2, 2.9, 3.2, 4.1, 2.6

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher / IL
Lab Project #:
Sampler: JB
Lab PM: Dick Wright

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	VOC	SVOC	Total metals	TCLP/SPLP metals	pH					Comments
1	5	A9-4(0-1)-020717	2/7/17	08:40	6	SO	Parameter	X	X	X	X	X					
2	6	A9-5(0-1)-020717	12:00	~~08:55~~ JB													
3	7	A9-6(0-1)-020717	~~08:55~~	~~09:05~~ JB													
4	8	A9-7(0-1)-020717	09:05	~~09:15~~ JB													
5	9	RB-1(0-1)-020717	09:15	~~09:30~~ JB													
6	10	A4-1(0-1)-020717	09:30	~~09:45~~ JB													
7	11	F6-1(0-1)-020717	09:45	~~10:00~~ JB													
8	12	F6-2(0-1)-020717	12:10	~~10:20~~ JB				X	X	X	X	X					
~~9~~	~~12~~	~~F6-2(0-1)-020717D~~		10:20				JB					AT				
10	13	A4-2(0-1)-020717	12:15	~~10:45~~ JB				X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/7/17	1656	[signature]	TAL	02/07/17	1656
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

2/15/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: S. Babusubhumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123558
Chain of Custody Number:
Page 5 of 5
Temperature °C of Cooler:

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher / IL
Lab Project #:
Sampler: JB
Lab PM: Dick Wright

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP / SPLP Metals	pH					Comments
10	14	A4-3(0-1)-020717	2/7/17	~~11:05~~ 10:00	6	SO	X	X	X	X	X					
11	15	A4-4(0-1)-020717		10:20												
12	16	A4-4(0-1)-020717D		10:20												
13	17	A4-5(0-1)-020717		10:45												
14	18	A4-6(0-1)-020717		12:25												
15	19	A5-1(0-1)-020717		11:05			X	X	X	X	X					

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)
___1 Day ___2 Days ___5 Days ___7 Days ___10 Days ___15 Days Standard Other
Requested Due Date:

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/7/17	1656	[signature]	TAMK	02/07/17	1656
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

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: 500-123558-1
Client Project/Site: IDOT - Illinois Route 1 - WO 053

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
2/15/2017 1:04:05 PM

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

Client Sample ID: A4-2(0-1)-020717
Date Collected: 02/07/17 12:15
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-13
Matrix: Solid
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<17		17	7.4	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Benzene	<1.7		1.7	0.43	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Bromodichloromethane	<1.7		1.7	0.34	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Bromoform	<1.7		1.7	0.49	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Bromomethane	<4.2		4.2	1.6	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Carbon disulfide	<4.2		4.2	0.88	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Carbon tetrachloride	<1.7		1.7	0.49	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Chlorobenzene	<1.7		1.7	0.62	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Chloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Chloroform	<1.7		1.7	0.59	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Chloromethane	<4.2		4.2	1.7	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
cis-1,2-Dichloroethene	<1.7		1.7	0.47	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
cis-1,3-Dichloropropene	<1.7		1.7	0.51	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Dibromochloromethane	<1.7		1.7	0.55	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
1,1-Dichloroethane	<1.7		1.7	0.58	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
1,2-Dichloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
1,1-Dichloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
1,2-Dichloropropane	<1.7		1.7	0.44	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
1,3-Dichloropropene, Total	<1.7		1.7	0.59	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Ethylbenzene	<1.7		1.7	0.81	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
2-Hexanone	<4.2		4.2	1.3	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Methylene Chloride	<4.2		4.2	1.7	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Methyl Ethyl Ketone	<4.2		4.2	1.9	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
methyl isobutyl ketone	<4.2		4.2	1.3	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Methyl tert-butyl ether	<1.7		1.7	0.50	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Styrene	<1.7		1.7	0.51	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.54	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Tetrachloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Toluene	<1.7		1.7	0.43	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
trans-1,2-Dichloroethene	<1.7		1.7	0.75	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
trans-1,3-Dichloropropene	<1.7		1.7	0.59	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
1,1,1-Trichloroethane	<1.7		1.7	0.57	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
1,1,2-Trichloroethane	<1.7		1.7	0.73	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Trichloroethene	<1.7		1.7	0.57	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Vinyl chloride	<1.7		1.7	0.75	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1
Xylenes, Total	<3.4		3.4	0.54	ug/Kg	☼	02/08/17 09:20	02/13/17 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*	*02/08/17 09:20*	*02/13/17 14:48*	*1*
Dibromofluoromethane	*103*		*75 - 120*	*02/08/17 09:20*	*02/13/17 14:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*69 - 134*	*02/08/17 09:20*	*02/13/17 14:48*	*1*
Toluene-d8 (Surr)	*107*		*75 - 123*	*02/08/17 09:20*	*02/13/17 14:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1

Client Sample ID: A4-2(0-1)-020717
Date Collected: 02/07/17 12:15
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-13
Matrix: Solid
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
2-Methylnaphthalene	<75		75	6.9	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
2-Methylphenol	<190		190	60	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Anthracene	<37		37	6.2	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Benzo[a]anthracene	**21**	**J**	37	5.0	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Benzo[a]pyrene	**26**	**J**	37	7.2	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Benzo[b]fluoranthene	**53**		37	8.0	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Benzo[g,h,i]perylene	**18**	**J**	37	12	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Benzo[k]fluoranthene	**12**	**J**	37	11	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Carbazole	<190		190	93	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Chrysene	**30**	**J**	37	10	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Dibenzofuran	<190		190	44	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Fluoranthene	**59**		37	6.9	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Fluorene	<37		37	5.2	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Hexachloroethane	<190		190	57	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1

Client Sample ID: A4-2(0-1)-020717
Date Collected: 02/07/17 12:15
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-13
Matrix: Solid
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**12**	**J**	37	9.7	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Isophorone	<190		190	42	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Naphthalene	<37		37	5.7	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Phenanthrene	**24**	**J**	37	5.2	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Phenol	<190		190	83	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1
Pyrene	**47**		37	7.4	ug/Kg	☼	02/10/17 07:09	02/13/17 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*110*		*25 - 130*	*02/10/17 07:09*	*02/13/17 11:29*	*1*
2-Fluorobiphenyl	*88*		*42 - 115*	*02/10/17 07:09*	*02/13/17 11:29*	*1*
2-Fluorophenol	*87*		*40 - 130*	*02/10/17 07:09*	*02/13/17 11:29*	*1*
Nitrobenzene-d5	*79*		*33 - 124*	*02/10/17 07:09*	*02/13/17 11:29*	*1*
Phenol-d5	*82*		*36 - 123*	*02/10/17 07:09*	*02/13/17 11:29*	*1*
Terphenyl-d14	*99*		*25 - 150*	*02/10/17 07:09*	*02/13/17 11:29*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/13/17 08:21	02/13/17 17:16	1
Barium	**0.29**	**J**	0.50	0.050	mg/L		02/13/17 08:21	02/13/17 17:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/17 08:21	02/13/17 17:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:21	02/13/17 17:16	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 17:16	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 17:16	1
Copper	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 17:16	1
Iron	<0.40		0.40	0.20	mg/L		02/13/17 08:21	02/13/17 17:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/17 08:21	02/13/17 17:16	1
Manganese	**1.3**		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 17:16	1
Nickel	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 17:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:21	02/13/17 17:16	1
Silver	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 17:16	1
Zinc	**0.033**	**J**	0.50	0.020	mg/L		02/13/17 08:21	02/13/17 17:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.085**		0.050	0.010	mg/L		02/11/17 10:11	02/13/17 15:05	1
Barium	**0.73**		0.50	0.050	mg/L		02/11/17 10:11	02/13/17 15:05	1
Beryllium	**0.011**		0.0040	0.0040	mg/L		02/11/17 10:11	02/13/17 15:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/17 10:11	02/13/17 15:05	1
Chromium	**0.26**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:05	1
Cobalt	**0.073**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:05	1
Copper	**0.30**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:05	1
Iron	**250**		0.40	0.20	mg/L		02/11/17 10:11	02/13/17 15:05	1
Lead	**0.43**		0.0075	0.0075	mg/L		02/11/17 10:11	02/13/17 15:05	1
Manganese	**1.2**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:05	1
Nickel	**0.29**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:05	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/17 10:11	02/13/17 15:05	1

Client Sample ID: A4-2(0-1)-020717
Date Collected: 02/07/17 12:15
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-13
Matrix: Solid
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:05	1
Zinc	**0.81**		0.50	0.020	mg/L		02/11/17 10:11	02/13/17 15:05	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.25**	**J**	1.0	0.21	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Arsenic	**6.1**		0.50	0.23	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Barium	**47**		0.50	0.091	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Beryllium	**0.54**		0.20	0.043	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Cadmium	**0.36**		0.10	0.029	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Calcium	**13000**	**B**	10	3.2	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Chromium	**20**	**B**	0.50	0.086	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Cobalt	**9.1**		0.25	0.056	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Copper	**20**		0.50	0.11	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Iron	**15000**	**B**	10	3.8	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Lead	**100**	**B**	0.25	0.12	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Magnesium	**9600**	**B**	5.0	2.0	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Manganese	**270**	**B**	0.50	0.099	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Nickel	**23**		0.50	0.14	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Potassium	**1500**	**B**	25	4.1	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Selenium	**0.45**	**J**	0.50	0.25	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Sodium	**1900**		50	6.6	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Vanadium	**18**		0.25	0.073	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1
Zinc	**74**		1.0	0.32	mg/Kg	☼	02/10/17 08:30	02/11/17 04:53	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/13/17 11:45	02/14/17 11:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/13/17 13:04	02/14/17 09:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**28**		18	9.3	ug/Kg	☼	02/09/17 16:15	02/10/17 10:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.5**		0.2	0.2	SU			02/11/17 12:04	1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
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)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123558-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.5

500-123558 COC

(optional)

Report To
Contact: S. Babusirkumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123558

Chain of Custody Number:

Page 3 of 5

Temperature °C of Cooler:

Client	Client Project #	Preservative
Weston Solutions		
Project Name: IDOT 053		Parameter
Project Location/State: Beecher/IL	Lab Project #	
Sampler: A. Tuckaste	Lab PM	

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

	Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP SPLP metals	pH					Comments
1	2		AA4-13(0-1)-020717	2/7/17	1453	6	S	X	X	X	X	X					
2	2		FA5-1(0-1)-020717	2/7/17	1515	6	S	X	X	X	X	X					
3	2		FA5-2(0-1)-020717	2/7/17	1528	6	S	X	X	X	X	X					
4	2		FA5-2(0-1)-020717D	2/7/17	1528	6	S	X	X	X	X	X					

AT

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	2/7/17	16:56			02/07/17	16:56
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact: Sr. Babasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7252
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123558
Chain of Custody Number:
Page 4 of 5
Temperature °C of Cooler: 3.2, 2.9, 3.2, 4.1, 2.6

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher / IL
Lab Project #:
Sampler: JB
Lab PM: Dick Wright

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	VOC	SVOC	Total metals	TCLP/SPLP metals	pH					Comments
1	5	A9-4(0-1)-020717	2/7/17	08:40	6	SO	Parameter	X	X	X	X	X					
2	6	A9-5(0-1)-020717	12:00	~~08:55~~ JB													
3	7	A9-6(0-1)-020717	~~08:55~~	~~09:05~~ JB													
4	8	A9-7(0-1)-020717	09:05	~~09:15~~ JB													
5	9	RB-1(0-1)-020717	09:15	~~09:30~~ JB													
6	10	A4-1(0-1)-020717	09:30	~~09:45~~ JB													
7	11	F6-1(0-1)-020717	09:45	~~10:00~~ JB													
8	12	F6-2(0-1)-020717	12:10	~~10:20~~ JB				X	X	X	X	X					
~~9~~	~~12~~	~~F6-2(0-1)-020717D~~		10:20				JB					AT				
10	13	A4-2(0-1)-020717	12:15	~~10:45~~ JB				X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/7/17	1656	[signature]	TAL	02/07/17	1656
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

2/15/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: S. Babusubhumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123558
Chain of Custody Number:
Page 5 of 5
Temperature °C of Cooler:

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher / IL
Lab Project #:
Sampler: JB
Lab PM: Dick Wright

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP / SPLP Metals	pH					Comments
10	14	A4-3(0-1)-020717	2/7/17	~~11:05~~ 10:00	6	SO	X	X	X	X	X					
11	15	A4-4(0-1)-020717		10:20												
12	16	A4-4(0-1)-020717D		10:20												
13	17	A4-5(0-1)-020717		10:45												
14	18	A4-6(0-1)-020717		12:25												
15	19	A5-1(0-1)-020717		11:05			X	X	X	X	X					

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)
___1 Day ___2 Days ___5 Days ___7 Days ___10 Days ___15 Days Standard Other
Requested Due Date:

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/7/17	1656	[signature]	TAMK	02/07/17	1656
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

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: 500-123501-1
Client Project/Site: IDOT - Illinois Route 1 - WO 053

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
2/14/2017 1:37:53 PM

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

Client Sample ID: A4-9(0-1)-020617
Date Collected: 02/06/17 11:29
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123501-5
Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<17		17	7.5	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Benzene	<1.7		1.7	0.44	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Bromoform	<1.7		1.7	0.50	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Bromomethane	<4.3		4.3	1.6	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Carbon disulfide	<4.3		4.3	0.90	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Carbon tetrachloride	<1.7		1.7	0.50	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Chlorobenzene	<1.7		1.7	0.64	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Chloroethane	<4.3	*	4.3	1.3	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Chloroform	<1.7		1.7	0.60	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Chloromethane	<4.3		4.3	1.7	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
cis-1,2-Dichloroethene	<1.7		1.7	0.48	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
cis-1,3-Dichloropropene	<1.7		1.7	0.52	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Dibromochloromethane	<1.7		1.7	0.56	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
1,1-Dichloroethane	<1.7		1.7	0.59	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
1,2-Dichloroethane	<4.3		4.3	1.3	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
1,1-Dichloroethene	<1.7		1.7	0.59	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
1,2-Dichloropropane	<1.7		1.7	0.45	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
1,3-Dichloropropene, Total	<1.7		1.7	0.60	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Ethylbenzene	<1.7		1.7	0.82	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
2-Hexanone	<4.3		4.3	1.3	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Methylene Chloride	<4.3		4.3	1.7	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Methyl Ethyl Ketone	<4.3		4.3	1.9	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
methyl isobutyl ketone	<4.3		4.3	1.3	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Methyl tert-butyl ether	<1.7		1.7	0.51	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Styrene	<1.7		1.7	0.52	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.55	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Tetrachloroethene	<1.7		1.7	0.59	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Toluene	<1.7		1.7	0.44	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
trans-1,2-Dichloroethene	<1.7		1.7	0.76	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
trans-1,3-Dichloropropene	<1.7		1.7	0.60	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
1,1,1-Trichloroethane	<1.7	*	1.7	0.58	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
1,1,2-Trichloroethane	<1.7		1.7	0.74	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Trichloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Vinyl chloride	<1.7		1.7	0.76	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1
Xylenes, Total	<3.4		3.4	0.55	ug/Kg	☼	02/07/17 09:25	02/07/17 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 120*	*02/07/17 09:25*	*02/07/17 15:43*	*1*
Dibromofluoromethane	*95*		*75 - 120*	*02/07/17 09:25*	*02/07/17 15:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*69 - 134*	*02/07/17 09:25*	*02/07/17 15:43*	*1*
Toluene-d8 (Surr)	*108*		*75 - 123*	*02/07/17 09:25*	*02/07/17 15:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1

Client Sample ID: A4-9(0-1)-020617
Date Collected: 02/06/17 11:29
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123501-5
Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
2,4-Dinitrophenol	<770		770	680	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
2-Methylnaphthalene	<77		77	7.1	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
2-Methylphenol	<190		190	62	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Anthracene	**7.1**	**J**	38	6.4	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Benzo[a]anthracene	**62**		38	5.2	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Benzo[a]pyrene	**68**		38	7.4	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Benzo[b]fluoranthene	**100**		38	8.3	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Benzo[g,h,i]perylene	**38**		38	12	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Benzo[k]fluoranthene	**46**		38	11	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Carbazole	<190		190	96	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Chrysene	**71**		38	10	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Dibenz(a,h)anthracene	**8.5**	**J**	38	7.4	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Dibenzofuran	<190		190	45	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Fluoranthene	**120**		38	7.1	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Fluorene	<38		38	5.4	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Hexachloroethane	<190		190	58	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1

Client Sample ID: A4-9(0-1)-020617
Date Collected: 02/06/17 11:29
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123501-5
Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**32**	**J**	38	9.9	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Isophorone	<190		190	43	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Naphthalene	<38		38	5.9	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Pentachlorophenol	<770		770	620	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Phenanthrene	**31**	**J**	38	5.3	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Phenol	<190		190	85	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1
Pyrene	**98**		38	7.6	ug/Kg	☼	02/08/17 07:19	02/10/17 09:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*25 - 130*	*02/08/17 07:19*	*02/10/17 09:49*	*1*
2-Fluorobiphenyl	*98*		*42 - 115*	*02/08/17 07:19*	*02/10/17 09:49*	*1*
2-Fluorophenol	*103*		*40 - 130*	*02/08/17 07:19*	*02/10/17 09:49*	*1*
Nitrobenzene-d5	*91*		*33 - 124*	*02/08/17 07:19*	*02/10/17 09:49*	*1*
Phenol-d5	*98*		*36 - 123*	*02/08/17 07:19*	*02/10/17 09:49*	*1*
Terphenyl-d14	*113*		*25 - 150*	*02/08/17 07:19*	*02/10/17 09:49*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/08/17 09:07	02/09/17 00:58	1
Barium	**0.51**		0.50	0.050	mg/L		02/08/17 09:07	02/09/17 00:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/17 09:07	02/09/17 00:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/17 09:07	02/09/17 00:58	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/17 09:07	02/09/17 00:58	1
Cobalt	**0.018**	**J**	0.025	0.010	mg/L		02/08/17 09:07	02/09/17 00:58	1
Copper	<0.025		0.025	0.010	mg/L		02/08/17 09:07	02/09/17 00:58	1
Iron	<0.40		0.40	0.20	mg/L		02/08/17 09:07	02/09/17 00:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/17 09:07	02/09/17 00:58	1
Manganese	**3.4**		0.025	0.010	mg/L		02/08/17 09:07	02/09/17 00:58	1
Nickel	**0.030**		0.025	0.010	mg/L		02/08/17 09:07	02/09/17 00:58	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/17 09:07	02/09/17 00:58	1
Silver	<0.025		0.025	0.010	mg/L		02/08/17 09:07	02/09/17 00:58	1
Zinc	**0.052**	**J B**	0.50	0.020	mg/L		02/08/17 09:07	02/09/17 00:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.038**	**J**	0.050	0.010	mg/L		02/08/17 13:57	02/09/17 14:32	1
Barium	**0.58**		0.50	0.050	mg/L		02/08/17 13:57	02/09/17 14:32	1
Beryllium	**0.0059**		0.0040	0.0040	mg/L		02/08/17 13:57	02/09/17 14:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/17 13:57	02/09/17 14:32	1
Chromium	**0.14**		0.025	0.010	mg/L		02/08/17 13:57	02/09/17 14:32	1
Cobalt	**0.034**		0.025	0.010	mg/L		02/08/17 13:57	02/09/17 14:32	1
Copper	**0.14**		0.025	0.010	mg/L		02/08/17 13:57	02/09/17 14:32	1
Iron	**120**		0.40	0.20	mg/L		02/08/17 13:57	02/09/17 14:32	1
Lead	**0.096**		0.0075	0.0075	mg/L		02/08/17 13:57	02/09/17 14:32	1
Manganese	**0.61**		0.025	0.010	mg/L		02/08/17 13:57	02/09/17 14:32	1
Nickel	**0.16**		0.025	0.010	mg/L		02/08/17 13:57	02/09/17 14:32	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/17 13:57	02/09/17 14:32	1

Client Sample ID: A4-9(0-1)-020617
Date Collected: 02/06/17 11:29
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123501-5
Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/08/17 13:57	02/09/17 14:32	1
Zinc	**0.38**	**J**	0.50	0.020	mg/L		02/08/17 13:57	02/09/17 14:32	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.40**	**J**	1.1	0.23	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Arsenic	**6.3**		0.56	0.26	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Barium	**70**		0.56	0.10	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Beryllium	**0.56**		0.22	0.049	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Cadmium	**0.24**		0.11	0.033	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Calcium	**71000**	**B**	110	36	mg/Kg	☼	02/08/17 09:00	02/09/17 18:17	10
Chromium	**18**		0.56	0.097	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Cobalt	**11**		0.28	0.064	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Copper	**21**		0.56	0.12	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Iron	**17000**	**B**	11	4.3	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Lead	**40**		0.28	0.14	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Magnesium	**28000**	**B**	5.6	2.3	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Manganese	**330**		0.56	0.11	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Nickel	**30**		0.56	0.15	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Potassium	**1700**		28	4.6	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Sodium	**980**		56	7.4	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Vanadium	**16**		0.28	0.082	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1
Zinc	**72**	**B**	1.1	0.36	mg/Kg	☼	02/08/17 09:00	02/08/17 19:41	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/08/17 12:00	02/09/17 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/08/17 12:00	02/09/17 09:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**18**		17	9.2	ug/Kg	☼	02/07/17 14:30	02/08/17 10:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.7**		0.2	0.2	SU			02/07/17 16:09	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
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)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123501-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTA

2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.53

500-123501 COC

Report To (optional)
Contact: S. Balasubramar
Company: Weston Solutions
Address: 300 Plaza Ctr, Ste 20?
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

Bill To (optional)
Contact:
Company: S. Rang
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123501
Chain of Custody Number:
Page 1 of 6
Temperature °C of Cooler: 3.1, 2.6, 4.3, 2.9, 3.5

Client: Weston
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher/IL
Lab Project #:
Sampler: A. Turkast
Lab PM: Dan Wright

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH					Comments
1		A5-2(0-1)-020617	2/6/17	1038	6	S	X	X	X	X	X					
2		A5-2(0-1)-020617D	↓	1038	6	S	X	X	X	X	X					
3		A4-7(0-1)-020617		1108	6	S	X	X	X	X	X					
4		A4-8(0-1)-020617		1115	6	S	X	X	X	X	X					
5		A4-9(0-1)-020617		1129	6	S	X	X	X	X	X					
6		A4-10(0-1)-020617		1140	6	S	X	X	X	X	X					
7		A4-11(0-1)-020617		1152	6	S	X	X	X	X	X					
8		A4-12(0-1)-020617		1210	6	S	X	X	X	X	X					
9		A4-13(0-1)-020617	↓	1225	6	S	X	X	X	X	X					
10		F7-1(0-1)-020617	2/6/17	1235	6	S	X	X	X	X	X					

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)
__ 1 Day __ 2 Days __ 5 Days __ 7 Days __ 10 Days __ 15 Days __ Other
Requested Due Date ____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for __ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/6/17	1710	[signature]	TA	2/6/17	1710

Lab Courier: TA 2/7/17 SS
Shipped:
Hand Delivered: X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Dr Ste 201
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123501

Chain of Custody Number:

Page 2 of 6

Temperature °C of Cooler:

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher / IL
Lab Project #:
Sampler: A. Tuchasz
Lab PM: Dick Wright

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total metals	TAL/SPLP metals	pH					Comments
11		A9-8(0-1)-020617	2/6/17	1250	6	S	X	X	X	X	X					
12		A9-9(0-1)-020617		1310	6	S	X	X	X	X	X					
13		A9-9(0-1)-020617D		1310	6	S	X	X	X	X	X					
14		A9-10(0-1)-020617		1330	6	S	X	X	X	X	X					
15		A9-11(0-1)-020617		1344	6	S	X	X	X	X	X					
16		A9-12(0-1)-020617		1400	6	S	X	X	X	X	X					
17		A9-13(0-1)-020617		1415	6	S	X	X	X	X	X					
18		A9-14(0-1)-020617		1430	6	S	X	X	X	X	X					
19		A9-15(0-1)-020617		1445	6	S	X	X	X	X	X					
20		A11-2(0-1)-020617	2/6/17	1500	6	S	X	X	X	X	X					

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	2/6/17	1710		TA	2/6/17	1710
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: SS 2/7/17 FA
Shipped:
Hand Delivered: X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company: S
Address: A
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-12350-1

Chain of Custody Number:

Page 3 of 6

Temperature °C of Cooler:

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher/IL
Lab Project #:
Sampler: A. Tuchasz
Lab PM: Jack Wright

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total metals	TCLP/SPLP metals	pH					Comments
21		F12-1(0-1)-020617	2/6/17	1530	6	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	2/6/17	1710		TA	2/6/17	1710
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: SS 2/7/17 FA
Shipped:
Hand Delivered: X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

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 332: IL Route 1 (Dixie Highway) Office Phone Number, if available: _____

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

28625 S. Dixie Highway, (ISGS Site No. 3140-14)

City: Beecher State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.371219047 (Decimal Degrees) Longitude: -87.622075283 (-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 332: IL Route 1 (Dixie Highway)

Latitude: 41.371219047 Longitude: -87.622075283

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 F14-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 3140-14. SEE FIGURE 3-8 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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 - JOB ID: 500-123502-1.
ALSO SEE FIGURE 4-8 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, Michael Castillo, 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: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

Michael Castillo, P.G.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

09 March 2017
Date:

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

Summary Table of ISGS Site No. 3140-14
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	F14-1(0-1)-020617	**Soil Reference Concentrations[A]**
Sample Date	2/6/2017	
Location ID	F14-1	
Depth	0 - 1	
ISGS Site No.	3140-14	
Parameter		
Laboratory pH (s.u.)	8.8	<6.25, >9.0
VOCs	None Detected	
SVOCs (ug/kg)		
2-Methylnaphthalene	8.8 J	---
Acenaphthene	15 J	570000
Anthracene	33 J	1.2E+07
Benzo(a)anthracene	120 J	900 / 1100 / 1800
Benzo(a)pyrene	140 J	90 / 1300 / 2100
Benzo(b)fluoranthene	220 J	900 / 1500 /2100
Benzo(g,h,i)perylene	81 J	---
Benzo(k)fluoranthene	67 J	9000
bis(2-Ethylhexyl)phthalate	70 J	46000
Chrysene	130 J	88000
Fluoranthene	180	3100000
Fluorene	15 J	560000
Indeno(1,2,3-cd)pyrene	72 J	900 / 900 / 1600
Naphthalene, SVOC	8 J	1800
Phenanthrene	160	
Pyrene	440 J	2300000
Total Metals (mg/kg)		
Antimony, Total	ND	5
Arsenic, Total	6.7	11.3 / 13.0
Barium, Total	86	1500
Beryllium, Total	0.61	22
Cadmium, Total	0.28	5.2
Calcium, Total	14000 B	---
Chromium, Total	16 B	21
Cobalt, Total	10	20
Copper, Total	58	2900
Iron, Total	15000 B	15000 / 15900
Lead, Total	55	107
Magnesium, Total	9500 B	325000
Manganese, Total	450 B	630 / 636
Mercury, Total	0.027	0.89
Nickel, Total	20	100
Potassium, Total	1300	---
Selenium, Total	0.46 J	1.3
Silver, Total	ND	4.4
Sodium, Total	2000	---
Thallium, Total	ND	2.6
Vanadium, Total	20	550
Zinc, Total	87	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.58	2
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	2.1	0.15
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Zinc, TCLP	0.044 J	5

Summary Table of ISGS Site No. 3140-14
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	F14-1(0-1)-020617	**Soil Reference Concentrations[A]**
Sample Date	2/6/2017	
Location ID	F14-1	
Depth	0 - 1	
ISGS Site No.	3140-14	
SPLP Metals (mg/l)		
Arsenic, SPLP	0.055	0.05
Barium, SPLP	0.94	2
Beryllium, SPLP	0.0079	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.19	0.1
Cobalt, SPLP	0.05	1
Copper, SPLP	0.19	0.65
Iron, SPLP	180	5
Lead, SPLP	0.2	0.0075
Manganese, SPLP	1	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.19	0.1
Zinc, SPLP	0.7	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for MSA counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

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: 500-123502-1
Client Project/Site: IDOT - Illinois Route 1 - WO 053

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
2/14/2017 4:32:30 PM

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

Client Sample ID: F14-1(0-1)-020617
Date Collected: 02/06/17 13:10
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-17
Matrix: Solid
Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<16		16	6.9	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Benzene	<1.6		1.6	0.41	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Bromodichloromethane	<1.6		1.6	0.32	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Bromoform	<1.6		1.6	0.46	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Bromomethane	<4.0		4.0	1.5	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Carbon disulfide	<4.0		4.0	0.83	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Carbon tetrachloride	<1.6		1.6	0.46	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Chlorobenzene	<1.6		1.6	0.59	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Chloroethane	<4.0		4.0	1.2	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Chloroform	<1.6		1.6	0.55	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Chloromethane	<4.0		4.0	1.6	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
cis-1,2-Dichloroethene	<1.6		1.6	0.44	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
cis-1,3-Dichloropropene	<1.6		1.6	0.48	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Dibromochloromethane	<1.6		1.6	0.52	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
1,1-Dichloroethane	<1.6		1.6	0.54	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
1,2-Dichloroethane	<4.0		4.0	1.2	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
1,1-Dichloroethene	<1.6		1.6	0.55	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
1,2-Dichloropropane	<1.6		1.6	0.41	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
1,3-Dichloropropene, Total	<1.6		1.6	0.56	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Ethylbenzene	<1.6		1.6	0.76	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
2-Hexanone	<4.0		4.0	1.2	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Methylene Chloride	<4.0		4.0	1.6	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Methyl Ethyl Ketone	<4.0		4.0	1.8	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
methyl isobutyl ketone	<4.0		4.0	1.2	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Methyl tert-butyl ether	<1.6		1.6	0.47	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Styrene	<1.6		1.6	0.48	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Tetrachloroethene	<1.6		1.6	0.54	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Toluene	<1.6		1.6	0.40	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
trans-1,2-Dichloroethene	<1.6		1.6	0.70	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
trans-1,3-Dichloropropene	<1.6		1.6	0.56	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
1,1,1-Trichloroethane	<1.6		1.6	0.53	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
1,1,2-Trichloroethane	<1.6		1.6	0.68	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Trichloroethene	<1.6		1.6	0.54	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Vinyl chloride	<1.6		1.6	0.70	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1
Xylenes, Total	<3.2		3.2	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 120*	*02/07/17 08:45*	*02/08/17 19:07*	*1*
Dibromofluoromethane	*102*		*75 - 120*	*02/07/17 08:45*	*02/08/17 19:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*69 - 134*	*02/07/17 08:45*	*02/08/17 19:07*	*1*
Toluene-d8 (Surr)	*101*		*75 - 123*	*02/07/17 08:45*	*02/08/17 19:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1

Client Sample ID: F14-1(0-1)-020617
Date Collected: 02/06/17 13:10
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-17
Matrix: Solid
Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
2-Methylnaphthalene	**8.8**	**J**	77	7.0	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
2-Methylphenol	<190		190	61	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
3,3'-Dichlorobenzidine	<190	*	190	53	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
4,6-Dinitro-2-methylphenol	<770		770	300	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Acenaphthene	**15**	**J**	38	6.8	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Anthracene	**33**	**J**	38	6.3	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Benzo[a]anthracene	**120**	*****	38	5.1	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Benzo[a]pyrene	**140**	*****	38	7.3	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Benzo[b]fluoranthene	**220**	*****	38	8.2	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Benzo[g,h,i]perylene	**81**	*****	38	12	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Benzo[k]fluoranthene	**67**	*****	38	11	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Bis(2-ethylhexyl) phthalate	**70**	**J ***	190	69	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Butyl benzyl phthalate	<190	*	190	72	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Carbazole	<190		190	95	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Chrysene	**130**	*****	38	10	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Dibenz(a,h)anthracene	<38	*	38	7.3	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Dibenzofuran	<190		190	44	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Fluoranthene	**180**		38	7.0	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Fluorene	**15**	**J**	38	5.3	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Hexachloroethane	<190		190	58	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1

Client Sample ID: F14-1(0-1)-020617
Date Collected: 02/06/17 13:10
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-17
Matrix: Solid
Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**72**	*	38	9.8	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Isophorone	<190		190	43	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Naphthalene	**8.0**	J	38	5.8	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
N-Nitrosodi-n-propylamine	<77		77	46	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Phenanthrene	**160**		38	5.3	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Phenol	<190		190	84	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1
Pyrene	**440**	*	38	7.5	ug/Kg	☼	02/08/17 16:43	02/13/17 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*67*		*25 - 130*	*02/08/17 16:43*	*02/13/17 17:46*	*1*
2-Fluorobiphenyl	*75*		*42 - 115*	*02/08/17 16:43*	*02/13/17 17:46*	*1*
2-Fluorophenol	*69*		*40 - 130*	*02/08/17 16:43*	*02/13/17 17:46*	*1*
Nitrobenzene-d5	*62*		*33 - 124*	*02/08/17 16:43*	*02/13/17 17:46*	*1*
Phenol-d5	*76*		*36 - 123*	*02/08/17 16:43*	*02/13/17 17:46*	*1*
Terphenyl-d14	*164*	*X *	*25 - 150*	*02/08/17 16:43*	*02/13/17 17:46*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/17 08:17	02/10/17 18:22	1
Barium	**0.58**		0.50	0.050	mg/L		02/10/17 08:17	02/10/17 18:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 08:17	02/10/17 18:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 08:17	02/10/17 18:22	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 18:22	1
Cobalt	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 18:22	1
Copper	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 18:22	1
Iron	<0.40		0.40	0.20	mg/L		02/10/17 08:17	02/10/17 18:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/17 08:17	02/10/17 18:22	1
Manganese	**2.1**		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 18:22	1
Nickel	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 18:22	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 08:17	02/10/17 18:22	1
Silver	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 18:22	1
Zinc	**0.044**	J	0.50	0.020	mg/L		02/10/17 08:17	02/10/17 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.055**		0.050	0.010	mg/L		02/10/17 08:18	02/11/17 18:18	1
Barium	**0.94**		0.50	0.050	mg/L		02/10/17 08:18	02/11/17 18:18	1
Beryllium	**0.0079**		0.0040	0.0040	mg/L		02/10/17 08:18	02/11/17 18:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 08:18	02/11/17 18:18	1
Chromium	**0.19**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 18:18	1
Cobalt	**0.050**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 18:18	1
Copper	**0.19**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 18:18	1
Iron	**180**		0.40	0.20	mg/L		02/10/17 08:18	02/11/17 18:18	1
Lead	**0.20**		0.0075	0.0075	mg/L		02/10/17 08:18	02/11/17 18:18	1
Manganese	**1.0**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 18:18	1
Nickel	**0.19**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 18:18	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 08:18	02/11/17 18:18	1

Client Sample ID: F14-1(0-1)-020617
Date Collected: 02/06/17 13:10
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-17
Matrix: Solid
Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 18:18	1
Zinc	**0.70**		0.50	0.020	mg/L		02/10/17 08:18	02/11/17 18:18	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Arsenic	**6.7**		0.57	0.26	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Barium	**86**		0.57	0.10	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Beryllium	**0.61**		0.23	0.050	mg/Kg	☼	02/08/17 15:05	02/10/17 14:12	1
Cadmium	**0.28**		0.11	0.033	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Calcium	**14000**	**B**	11	3.7	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Chromium	**16**	**B**	0.57	0.098	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Cobalt	**10**		0.29	0.065	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Copper	**58**		0.57	0.12	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Iron	**15000**	**B**	11	4.4	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Lead	**55**		0.29	0.14	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Magnesium	**9500**	**B**	5.7	2.3	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Manganese	**450**	**B**	0.57	0.11	mg/Kg	☼	02/08/17 15:05	02/10/17 14:12	1
Nickel	**20**		0.57	0.16	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Potassium	**1300**		29	4.7	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Selenium	**0.46**	**J**	0.57	0.28	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Sodium	**2000**		57	7.6	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Vanadium	**20**		0.29	0.084	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1
Zinc	**87**		1.1	0.36	mg/Kg	☼	02/08/17 15:05	02/10/17 00:57	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/09/17 13:45	02/10/17 11:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/09/17 13:45	02/10/17 12:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**27**		18	9.3	ug/Kg	☼	02/07/17 14:30	02/08/17 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.8**		0.2	0.2	SU			02/10/17 15:40	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123502-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
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.
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.

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)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123502-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6(
Phone: 708.534.5200 Fax: 708.53

500-123502 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Lindenhurst, IL 60046
Phone:
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123502

Chain of Custody Number:

Page 4 of 6

Temperature °C of Cooler: 3.1, 2.6, 4.3, 2.9, 3.5 2/2/17

Client: Weston
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher / IL
Lab Project #:
Sampler: JB
Lab PM: Dick Waylett

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	Parameter: SVOC	Parameter: Total metals	Parameter: TCLP / SPLP Metals	Parameter: pH	Comments
1		A23-1(0-1)-020617	2/6/17	10:25	6	SO		X	X	X	X	X	
2		A15-1(0-1)-020617		10:40									
3		A15-2(0-1)-020617		10:48									
4		A15-3(0-1)-020617		10:55									
5		A15-4(0-1)-020617		11:00									
6		F20-1(0-1)-020617		11:10									
7		VL19-1(0-1)-020617		11:20									
8		VL19-2(0-1)-020617		11:35									
9		VL19-3(0-1)-020617		1145									
10		A15-5(0-1)-020617		12:00				X	X	X	X	X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/6/17	1710	[signature]	TA	2/6/17	1710
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: SS 2/7/17 TA
Shipped:
Hand Delivered: X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

2/14/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-123502

Chain of Custody Number:

Page 5 of 6

Temperature °C of Cooler:

Report To (optional)	Bill To (optional)
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company: S
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address: A
Phone:	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston Solutions		
Project Name		Parameter
IDOT 053		
Project Location/State	Lab Project #	
Beedmee / IL		
Sampler	Lab PM	
JB	Dirk Wright	

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals 13	TCLP SPLP Metals	PH					Comments
11		A15-5(0-1)-020617D	2/6/17	12:00	6	SO	X	X	X	X	X					
12		A15-6(0-1)-020617		12:10												
13		R18-1(0-1)-020617		12:20												
14		F17-1(0-1)-020617		12:30												
15		A15-7(0-1)-020617		12:45												
16		A15-8(0-1)-020617		13:00												
17		FK-1(0-1)-020617		13:10												
18		A9-1(0-1)-020617		13:20												
19		A13-1(0-1)-020617		13:30												
20		A11-1(0-1)-020617		13:40			X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	2/6/17	1710		TA	2/6/17	1710
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Ctr, Ste 201
Address: Mundelein, IL 60060
Phone: 224-836-4250
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123502
Chain of Custody Number:
Page 6 of 6
Temperature °C of Cooler:

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beedsville IL
Lab Project #:
Sampler: JB
Lab PM:

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP Metals SPLP Metals	PH					Comments
21		A9-2(0-1)-020617	2/6/17	14:00	6	SO	X	X	X	X	X					
22		A9-2(0-1)-020617D		14:00			X	X	X	X	X					
23		A9-3(0-1)-020617		14:10			X	X	X	X	X					
24		F10-1(0-1)-020617		14:30			X	X	X	X	X					

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	2/6/17	1710		TA	2/6/17	1710

Lab Courier
Shipped
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500(1209)

2/14/2017

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 332: IL Route 1 (Dixie Highway) Office Phone Number, if available: _____

Physical Site Location (address, incldduding number and street):
28700-29400 S. Dixie Highway, (ISGS Site No. 3140-15)

City: Beecher State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.367607855 (Decimal Degrees) Longitude: -87.621708832 (-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 332: IL Route 1 (Dixie Highway)

Latitude: 41.367607855 Longitude: -87.621708832

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 A15-4, A15-5, A15-12, AND A15-15 THROUGH A15-19 WERE SAMPLED ADJACENT TO ISGS SITE No. 3140-15. SEE FIGURES 3-6/3-7 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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 - JOB ID: 500-123502-1 AND 500-123557-1.
ALSO SEE FIGURES 4-6 AND 4-7 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, Michael Castillo, 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: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

Michael Castillo, P.G.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

29 March 2017
Date:

LICENSED PROFESSIONAL GEOLOGIST
MICHAEL A. CASTILLO
196.001276
ILLINOIS

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

Summary Table of ISGS Site No. 3140-15
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	A15-4(0-1)-020617	A15-5(0-1)-020617	A15-5(0-1)-020617D	A15-12(0-1)-020717	A15-15(0-1)-020717	Soil Reference Concentrations[A]
Sample Date	2/6/2017	2/6/2017	2/6/2017	2/7/2017	2/7/2017	
Location ID	A15-4	A15-5	A15-5	A15-12	A15-15	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-15	3140-15	3140-15	3140-15	3140-15	
Parameter						
Laboratory pH (s.u.)	8.5	8.1	8.4	9.0	8.9	<6.25, >9.0
VOCs (ug/kg)						
Acetone	ND	20 J+	20 J+	ND	ND	25000
Xylene (Total)	ND	ND	ND	ND	ND	5600
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	19 J	ND	ND	ND	---
Acenaphthene	ND	ND	ND	ND	ND	570000
Acenaphthylene	ND	7.6 J	ND	ND	ND	---
Anthracene	ND	13 J	ND	ND	ND	1.2E+07
Benzo(a)anthracene	28 J	68 J	17 J	21 J	ND	900 / 1100 / 1800
Benzo(a)pyrene	35 J	72 J	21 J	29 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	58 J	140 J	46 J	38 J	8.9 J	900 / 1500 /2100
Benzo(g,h,i)perylene	20 J	43 J	16 J	22 J	ND	---
Benzo(k)fluoranthene	21 J	44 J	15 J	15 J	ND	9000
bis(2-Ethylhexyl)phthalate	ND	94 J	ND	ND	ND	46000
Chrysene	39 J	84 J	24 J	26 J	ND	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	90 / 200 / 420
Fluoranthene	64	120 J	31 J	22 J	9.7 J	3100000
Fluorene	ND	5.9 J	ND	ND	ND	560000
Indeno(1,2,3-cd)pyrene	14 J	31 J	10 J	ND	ND	900 / 900 / 1600
Naphthalene, SVOC	ND	9.9 J	ND	ND	ND	1800
Phenanthrene	38 J	87	16 J	13 J	ND	
Pyrene	80	230 J	42 J	44 J	9.1 J	2300000
Total Metals (mg/kg)						
Antimony, Total	ND	ND	0.28 J	0.31 J	0.31 J	5
Arsenic, Total	7.4	4.7	5.3	7.5	2.4	11.3 / 13.0
Barium, Total	73	82	76	57	21	1500
Beryllium, Total	0.82	0.61	0.64	0.66	0.2 J	22
Cadmium, Total	0.33	0.27	0.2	0.2	0.2	5.2
Calcium, Total	19000 B	24000 B	23000 B	7000 B	220000 B	---
Chromium, Total	18 B	14 B	14 B	18	6.2	21
Cobalt, Total	14	6.8	7.1	12	3.5	20
Copper, Total	23	17	17	20	12	2900
Iron, Total	19000 B	13000 B	14000 B	19000	4600	15000 / 15900
Lead, Total	100	76 J	36 J	62 B	52 B	107
Magnesium, Total	14000 B	16000 B	16000 B	6700 B	140000 B	325000
Manganese, Total	380 B	220 B	210 B	310	180	630 / 636
Mercury, Total	0.046	0.045	0.019	0.024	0.015 J	0.89
Nickel, Total	33	16	21	30	7.9	100
Potassium, Total	1500	1100	1200	1900	750	---
Selenium, Total	0.44 J	0.33 J	ND	0.36 J	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Sodium, Total	2900	2000	2000	2700	610	---
Thallium, Total	ND	ND	ND	ND	ND	2.6
Vanadium, Total	19	18	18	20	5.5	550
Zinc, Total	87	71	67	65	45	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	0.011 J	ND	0.05
Barium, TCLP	0.29 J	0.53	0.37 J	0.33 J	0.3 J	2
Cadmium, TCLP	0.0024 J	0.003 J	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	0.017 J	ND	ND	ND	0.021 J	1
Copper, TCLP	ND	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	ND	5
Lead, TCLP	0.015	0.012	ND	ND	0.01	0.0075
Manganese, TCLP	2.2	1.1 J	0.37 J	3.1	1.9	0.15
Nickel, TCLP	0.011 J	0.011 J	0.01 J	ND	0.02 J	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	0.034 J	0.12 J	0.032 J	0.023 J	0.13 J	5

Summary Table of ISGS Site No. 3140-15
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	A15-4(0-1)-020617	A15-5(0-1)-020617	A15-5(0-1)-020617D	A15-12(0-1)-020717	A15-15(0-1)-020717	Soil Reference Concentrations[A]
Sample Date	2/6/2017	2/6/2017	2/6/2017	2/7/2017	2/7/2017	
Location ID	A15-4	A15-5	A15-5	A15-12	A15-15	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-15	3140-15	3140-15	3140-15	3140-15	
Parameter						
SPLP Metals (mg/l)						
Arsenic, SPLP	0.09	0.033 J	0.032 J	0.072	ND	0.05
Barium, SPLP	0.97	0.85	0.6	1	0.081 J	2
Beryllium, SPLP	0.014	0.0064	0.0057	0.011	ND	0.004
Cadmium, SPLP	ND	0.0039 J	ND	ND	ND	0.005
Chromium, SPLP	0.29	0.17	0.17	0.26	0.021 J	0.1
Cobalt, SPLP	0.082	0.049	0.041	0.098	ND	1
Copper, SPLP	0.27	0.18	0.12	0.23	0.031	0.65
Iron, SPLP	300	150	150	250	14	5
Lead, SPLP	0.42	0.89 J	0.15 J	1.1	0.079	0.0075
Manganese, SPLP	1.4	1.3	0.82	2.6	0.11	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.36	0.14	0.14	0.26	0.016 J	0.1
Zinc, SPLP	0.91	1.1	0.53	0.93	0.1 J	5

Summary Table of ISGS Site No. 3140-15
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	A15-16(0-1)-020717	A15-17(0-1)-020717	A15-17(0-1)-020717D	A15-18(0-1)-020717	A15-19(0-1)-020717	Soil Reference Concentrations[A]
Sample Date	2/7/2017	2/7/2017	2/7/2017	2/7/2017	2/7/2017	
Location ID	A15-16	A15-17	A15-17	A15-18	A15-19	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-15	3140-15	3140-15	3140-15	3140-15	
Parameter						
Laboratory pH (s.u.)	9.0	8.5	8.4	8.5	8.8	<6.25, >9.0
VOCs (ug/kg)						
Acetone	ND	ND	ND	ND	ND	25000
Xylene (Total)	2.1 J	ND	ND	ND	ND	5600
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	14 J	ND	ND	ND	---
Acenaphthene	ND	ND	ND	ND	58	570000
Acenaphthylene	7.7 J	ND	ND	ND	13 J	---
Anthracene	26 J	12 J	12 J	ND	80	1.2E+07
Benzo(a)anthracene	100 J	49 J	62 J	ND	290	900 / 1100 / 1800
Benzo(a)pyrene	130 J	59 J	91 J	ND	230 J	90 / 1300 / 2100
Benzo(b)fluoranthene	180 J	68 J	100 J	ND	360 J	900 / 1500 /2100
Benzo(g,h,i)perylene	86 J	58 J	60 J	ND	67 J	---
Benzo(k)fluoranthene	68 J	33 J	58 J	ND	170 J	9000
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	ND	46000
Chrysene	120 J	52 J	73 J	ND	290	88000
Dibenzo(a,h)anthracene	ND	ND	11 J	ND	ND	90 / 200 / 420
Fluoranthene	170	64	91	7.2 J	740	3100000
Fluorene	7.4 J	ND	ND	ND	27 J	560000
Indeno(1,2,3-cd)pyrene	50 J	33 J	43 J	ND	64 J	900 / 900 / 1600
Naphthalene, SVOC	5.8 J	7.8 J	ND	ND	ND	1800
Phenanthrene	110	54	62	ND	370	
Pyrene	300 J	140 J	180 J	6.8 J	920	2300000
Total Metals (mg/kg)						
Antimony, Total	0.3 J	0.64 J	0.35 J	0.43 J	0.26 J	5
Arsenic, Total	3.5	3.6	2.8	4.1	3.7	11.3 / 13.0
Barium, Total	3.9	47 J	25 J	4.2	51	1500
Beryllium, Total	0.083 J	0.41	0.27	0.096 J	0.44	22
Cadmium, Total	0.057 J	0.35	0.25	0.1 J	0.56	5.2
Calcium, Total	270000 B	140000 B	130000 B	260000 B	130000 B	---
Chromium, Total	1.6	9.5	6.4	1.8	19	21
Cobalt, Total	2.2	9.5	3.6	3.9	5.9	20
Copper, Total	2.6	15	9.3	2.3	27	2900
Iron, Total	2200	8600	5800	3000	12000	15000 / 15900
Lead, Total	ND	89 J	46 J	4.8 B	220 B	107
Magnesium, Total	170000 B	88000 B	82000 B	160000 B	54000 B	325000
Manganese, Total	110	530 J	180 J	130	290	630 / 636
Mercury, Total	ND	0.021	0.014 J	ND	0.021	0.89
Nickel, Total	4.5	13	9.5	7	16	100
Potassium, Total	430	1100	840	690	1200	---
Selenium, Total	ND	ND	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Sodium, Total	260	1100	850	380	2100	---
Thallium, Total	ND	ND	ND	ND	ND	2.6
Vanadium, Total	1.7	13	12	2.4	12	550
Zinc, Total	7	100 J	45 J	5.5	130	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	0.011 J	ND	ND	0.05
Barium, TCLP	0.11 J	0.28 J	0.3 J	0.057 J	0.25 J	2
Cadmium, TCLP	ND	ND	ND	ND	0.002 J	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	0.014 J	ND	ND	0.028	ND	1
Copper, TCLP	0.026	ND	0.017 J	0.012 J	0.015 J	0.65
Iron, TCLP	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.35	1.2	1.8	0.4	2.2	0.15
Nickel, TCLP	0.012 J	ND	ND	0.013 J	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	0.027 J	0.056 J	0.062 J	ND	0.054 J	5

Summary Table of ISGS Site No. 3140-15
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	A15-16(0-1)-020717	A15-17(0-1)-020717	A15-17(0-1)-020717D	A15-18(0-1)-020717	A15-19(0-1)-020717	**Soil Reference Concentrations[A]**
Sample Date	2/7/2017	2/7/2017	2/7/2017	2/7/2017	2/7/2017	
Location ID	A15-16	A15-17	A15-17	A15-18	A15-19	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-15	3140-15	3140-15	3140-15	3140-15	
Parameter						
SPLP Metals (mg/l)						
Arsenic, SPLP	ND	0.018 J	0.026 J	ND	0.091	0.05
Barium, SPLP	ND	0.3 J	0.43 J	ND	0.7	2
Beryllium, SPLP	ND	ND	0.004	ND	0.011	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	ND	0.085	0.11	ND	0.24	0.1
Cobalt, SPLP	ND	0.023 J	0.032	ND	0.099	1
Copper, SPLP	ND	0.08	0.1	ND	0.3	0.65
Iron, SPLP	ND	73	97	ND	260	5
Lead, SPLP	ND	0.32	0.3	ND	0.72	0.0075
Manganese, SPLP	ND	0.5	0.68	ND	1.8	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	ND	0.07	0.091	ND	0.31	0.1
Zinc, SPLP	ND	0.41 J	0.52	ND	0.93	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for MSA counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

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: 500-123502-1
Client Project/Site: IDOT - Illinois Route 1 - WO 053

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
2/14/2017 4:32:30 PM

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

Client Sample ID: A15-4(0-1)-020617
Date Collected: 02/06/17 11:00
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-5
Matrix: Solid
Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<17		17	7.6	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Benzene	<1.7		1.7	0.45	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Bromodichloromethane	<1.7		1.7	0.36	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Bromoform	<1.7		1.7	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Bromomethane	<4.4		4.4	1.7	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Carbon disulfide	<4.4		4.4	0.91	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Carbon tetrachloride	<1.7		1.7	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Chlorobenzene	<1.7		1.7	0.65	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Chloroethane	<4.4		4.4	1.3	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Chloroform	<1.7		1.7	0.61	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Chloromethane	<4.4		4.4	1.8	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
cis-1,2-Dichloroethene	<1.7		1.7	0.49	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
cis-1,3-Dichloropropene	<1.7		1.7	0.53	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Dibromochloromethane	<1.7		1.7	0.57	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
1,1-Dichloroethane	<1.7		1.7	0.60	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
1,2-Dichloroethane	<4.4		4.4	1.4	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
1,1-Dichloroethene	<1.7		1.7	0.60	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
1,2-Dichloropropane	<1.7		1.7	0.45	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
1,3-Dichloropropene, Total	<1.7		1.7	0.61	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Ethylbenzene	<1.7		1.7	0.84	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
2-Hexanone	<4.4		4.4	1.4	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Methylene Chloride	<4.4		4.4	1.7	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Methyl Ethyl Ketone	<4.4		4.4	1.9	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
methyl isobutyl ketone	<4.4		4.4	1.3	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Methyl tert-butyl ether	<1.7		1.7	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Styrene	<1.7		1.7	0.53	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.56	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Tetrachloroethene	<1.7		1.7	0.60	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Toluene	<1.7		1.7	0.44	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
trans-1,2-Dichloroethene	<1.7		1.7	0.77	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
trans-1,3-Dichloropropene	<1.7		1.7	0.61	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
1,1,1-Trichloroethane	<1.7		1.7	0.59	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
1,1,2-Trichloroethane	<1.7		1.7	0.75	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Trichloroethene	<1.7		1.7	0.59	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Vinyl chloride	<1.7		1.7	0.77	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1
Xylenes, Total	<3.5		3.5	0.56	ug/Kg	☼	02/07/17 08:45	02/08/17 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 120*	*02/07/17 08:45*	*02/08/17 14:01*	*1*
Dibromofluoromethane	*106*		*75 - 120*	*02/07/17 08:45*	*02/08/17 14:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*69 - 134*	*02/07/17 08:45*	*02/08/17 14:01*	*1*
Toluene-d8 (Surr)	*101*		*75 - 123*	*02/07/17 08:45*	*02/08/17 14:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	44	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
1,2-Dichlorobenzene	<200		200	49	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
1,3-Dichlorobenzene	<200		200	46	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123502-1

Client Sample ID: A15-4(0-1)-020617
Date Collected: 02/06/17 11:00
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-5
Matrix: Solid
Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	93	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
2,4-Dichlorophenol	<400		400	97	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
2,4-Dinitrophenol	<820		820	720	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
2,4-Dinitrotoluene	<200		200	65	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
2,6-Dinitrotoluene	<200		200	80	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
2-Chlorophenol	<200		200	70	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
2-Methylnaphthalene	<82		82	7.5	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
2-Methylphenol	<200		200	65	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
2-Nitroaniline	<200		200	55	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
2-Nitrophenol	<400		400	96	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
3 & 4 Methylphenol	<200		200	68	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
3,3'-Dichlorobenzidine	<200		200	57	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
3-Nitroaniline	<400		400	130	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
4,6-Dinitro-2-methylphenol	<820		820	330	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
4-Bromophenyl phenyl ether	<200		200	54	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
4-Chlorophenyl phenyl ether	<200		200	48	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
4-Nitrophenol	<820		820	390	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Acenaphthene	<40		40	7.3	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Acenaphthylene	<40		40	5.4	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Anthracene	<40		40	6.8	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Benzo[a]anthracene	**28**	**J**	40	5.5	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Benzo[a]pyrene	**35**	**J ***	40	7.9	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Benzo[b]fluoranthene	**58**	*****	40	8.8	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Benzo[g,h,i]perylene	**20**	**J ***	40	13	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Benzo[k]fluoranthene	**21**	**J ***	40	12	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Bis(2-chloroethoxy)methane	<200		200	42	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Bis(2-chloroethyl)ether	<200		200	61	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Carbazole	<200		200	100	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Chrysene	**39**	**J**	40	11	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Dibenz(a,h)anthracene	<40	*	40	7.9	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Dibenzofuran	<200		200	48	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Diethyl phthalate	<200		200	69	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Di-n-butyl phthalate	<200		200	62	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Fluoranthene	**64**		40	7.6	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Fluorene	<40		40	5.7	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Hexachlorobenzene	<82		82	9.4	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Hexachlorobutadiene	<200		200	64	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Hexachloroethane	<200		200	62	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1

Client Sample ID: A15-4(0-1)-020617
Date Collected: 02/06/17 11:00
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-5
Matrix: Solid
Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**14**	**J ***	40	11	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Isophorone	<200		200	46	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Naphthalene	<40		40	6.3	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Nitrobenzene	<40		40	10	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
N-Nitrosodi-n-propylamine	<82		82	50	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Pentachlorophenol	<820		820	650	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Phenanthrene	**38**	**J**	40	5.7	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Phenol	<200		200	90	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1
Pyrene	**80**		40	8.1	ug/Kg	☼	02/08/17 16:43	02/13/17 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*53*		*25 - 130*	*02/08/17 16:43*	*02/13/17 13:43*	*1*
2-Fluorobiphenyl	*67*		*42 - 115*	*02/08/17 16:43*	*02/13/17 13:43*	*1*
2-Fluorophenol	*63*		*40 - 130*	*02/08/17 16:43*	*02/13/17 13:43*	*1*
Nitrobenzene-d5	*60*		*33 - 124*	*02/08/17 16:43*	*02/13/17 13:43*	*1*
Phenol-d5	*64*		*36 - 123*	*02/08/17 16:43*	*02/13/17 13:43*	*1*
Terphenyl-d14	*98*		*25 - 150*	*02/08/17 16:43*	*02/13/17 13:43*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/17 08:17	02/10/17 16:57	1
Barium	**0.29**	**J**	0.50	0.050	mg/L		02/10/17 08:17	02/10/17 16:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 08:17	02/10/17 16:57	1
Cadmium	**0.0024**	**J**	0.0050	0.0020	mg/L		02/10/17 08:17	02/10/17 16:57	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 16:57	1
Cobalt	**0.017**	**J**	0.025	0.010	mg/L		02/10/17 08:17	02/10/17 16:57	1
Copper	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 16:57	1
Iron	<0.40		0.40	0.20	mg/L		02/10/17 08:17	02/10/17 16:57	1
Lead	**0.015**		0.0075	0.0075	mg/L		02/10/17 08:17	02/10/17 16:57	1
Manganese	**2.2**		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 16:57	1
Nickel	**0.011**	**J**	0.025	0.010	mg/L		02/10/17 08:17	02/10/17 16:57	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 08:17	02/10/17 16:57	1
Silver	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 16:57	1
Zinc	**0.034**	**J**	0.50	0.020	mg/L		02/10/17 08:17	02/10/17 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.090**		0.050	0.010	mg/L		02/10/17 08:18	02/11/17 17:09	1
Barium	**0.97**		0.50	0.050	mg/L		02/10/17 08:18	02/11/17 17:09	1
Beryllium	**0.014**		0.0040	0.0040	mg/L		02/10/17 08:18	02/11/17 17:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 08:18	02/11/17 17:09	1
Chromium	**0.29**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:09	1
Cobalt	**0.082**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:09	1
Copper	**0.27**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:09	1
Iron	**300**		0.40	0.20	mg/L		02/10/17 08:18	02/11/17 17:09	1
Lead	**0.42**		0.0075	0.0075	mg/L		02/10/17 08:18	02/11/17 17:09	1
Manganese	**1.4**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:09	1
Nickel	**0.36**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:09	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 08:18	02/11/17 17:09	1

Client Sample ID: A15-4(0-1)-020617
Date Collected: 02/06/17 11:00
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-5
Matrix: Solid
Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:09	1
Zinc	**0.91**		0.50	0.020	mg/L		02/10/17 08:18	02/11/17 17:09	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Arsenic	**7.4**		0.60	0.28	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Barium	**73**		0.60	0.11	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Beryllium	**0.82**		0.24	0.052	mg/Kg	☼	02/08/17 15:05	02/10/17 12:59	1
Cadmium	**0.33**		0.12	0.035	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Calcium	**19000**	**B**	12	3.9	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Chromium	**18**	**B**	0.60	0.10	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Cobalt	**14**		0.30	0.068	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Copper	**23**		0.60	0.13	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Iron	**19000**	**B**	12	4.6	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Lead	**100**		0.30	0.15	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Magnesium	**14000**	**B**	6.0	2.4	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Manganese	**380**	**B**	0.60	0.12	mg/Kg	☼	02/08/17 15:05	02/10/17 12:59	1
Nickel	**33**		0.60	0.16	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Potassium	**1500**		30	4.9	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Selenium	**0.44**	**J**	0.60	0.30	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Sodium	**2900**		60	7.9	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Vanadium	**19**		0.30	0.088	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1
Zinc	**87**		1.2	0.38	mg/Kg	☼	02/08/17 15:05	02/09/17 23:36	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/09/17 13:45	02/10/17 11:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/09/17 13:45	02/10/17 12:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**46**		20	11	ug/Kg	☼	02/07/17 14:30	02/08/17 11:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.5**		0.2	0.2	SU			02/08/17 16:45	1

Client Sample ID: A15-5(0-1)-020617
Date Collected: 02/06/17 12:00
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-10
Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	20		17	7.6	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Benzene	<1.7		1.7	0.45	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Bromodichloromethane	<1.7		1.7	0.36	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Bromoform	<1.7		1.7	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Bromomethane	<4.4		4.4	1.7	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Carbon disulfide	<4.4		4.4	0.91	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Carbon tetrachloride	<1.7		1.7	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Chlorobenzene	<1.7		1.7	0.64	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Chloroethane	<4.4		4.4	1.3	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Chloroform	<1.7		1.7	0.61	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Chloromethane	<4.4		4.4	1.8	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
cis-1,2-Dichloroethene	<1.7		1.7	0.49	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
cis-1,3-Dichloropropene	<1.7		1.7	0.53	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Dibromochloromethane	<1.7		1.7	0.57	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
1,1-Dichloroethane	<1.7		1.7	0.60	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
1,2-Dichloroethane	<4.4		4.4	1.4	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
1,1-Dichloroethene	<1.7		1.7	0.60	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
1,2-Dichloropropane	<1.7		1.7	0.45	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
1,3-Dichloropropene, Total	<1.7		1.7	0.61	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Ethylbenzene	<1.7		1.7	0.84	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
2-Hexanone	<4.4		4.4	1.4	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Methylene Chloride	<4.4		4.4	1.7	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Methyl Ethyl Ketone	<4.4		4.4	1.9	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
methyl isobutyl ketone	<4.4		4.4	1.3	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Methyl tert-butyl ether	<1.7		1.7	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Styrene	<1.7		1.7	0.53	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.56	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Tetrachloroethene	<1.7		1.7	0.59	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Toluene	<1.7		1.7	0.44	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
trans-1,2-Dichloroethene	<1.7		1.7	0.77	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
trans-1,3-Dichloropropene	<1.7		1.7	0.61	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
1,1,1-Trichloroethane	<1.7		1.7	0.59	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
1,1,2-Trichloroethane	<1.7		1.7	0.75	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Trichloroethene	<1.7		1.7	0.59	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Vinyl chloride	<1.7		1.7	0.77	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1
Xylenes, Total	<3.5		3.5	0.56	ug/Kg	☼	02/07/17 08:45	02/08/17 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 120*	*02/07/17 08:45*	*02/08/17 16:09*	*1*
Dibromofluoromethane	*113*		*75 - 120*	*02/07/17 08:45*	*02/08/17 16:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*69 - 134*	*02/07/17 08:45*	*02/08/17 16:09*	*1*
Toluene-d8 (Surr)	*100*		*75 - 123*	*02/07/17 08:45*	*02/08/17 16:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1

Client Sample ID: A15-5(0-1)-020617
Date Collected: 02/06/17 12:00
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-10
Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
2-Methylnaphthalene	**19**	**J**	79	7.2	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
2-Methylphenol	<200		200	63	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
3,3'-Dichlorobenzidine	<200	*	200	55	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
4,6-Dinitro-2-methylphenol	<790		790	320	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Acenaphthylene	**7.6**	**J**	39	5.2	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Anthracene	**13**	**J**	39	6.6	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Benzo[a]anthracene	**68**	*****	39	5.3	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Benzo[a]pyrene	**72**	*****	39	7.6	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Benzo[b]fluoranthene	**140**	*****	39	8.5	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Benzo[g,h,i]perylene	**43**	*****	39	13	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Benzo[k]fluoranthene	**44**	*****	39	12	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Bis(2-ethylhexyl) phthalate	**94**	**J ***	200	72	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Butyl benzyl phthalate	<200	*	200	75	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Carbazole	<200		200	98	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Chrysene	**84**	*****	39	11	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Dibenz(a,h)anthracene	<39	*	39	7.6	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Dibenzofuran	<200		200	46	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Fluoranthene	**120**		39	7.3	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Fluorene	**5.9**	**J**	39	5.5	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Hexachloroethane	<200		200	60	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1

Client Sample ID: A15-5(0-1)-020617
Date Collected: 02/06/17 12:00
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-10
Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**31**	**J ***	39	10	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Isophorone	<200		200	44	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Naphthalene	**9.9**	**J**	39	6.0	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Phenanthrene	**87**		39	5.5	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Phenol	<200		200	87	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1
Pyrene	**230**	*****	39	7.8	ug/Kg	☼	02/08/17 16:43	02/13/17 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*75*		*25 - 130*	*02/08/17 16:43*	*02/13/17 15:31*	*1*
2-Fluorobiphenyl	*76*		*42 - 115*	*02/08/17 16:43*	*02/13/17 15:31*	*1*
2-Fluorophenol	*71*		*40 - 130*	*02/08/17 16:43*	*02/13/17 15:31*	*1*
Nitrobenzene-d5	*66*		*33 - 124*	*02/08/17 16:43*	*02/13/17 15:31*	*1*
Phenol-d5	*74*		*36 - 123*	*02/08/17 16:43*	*02/13/17 15:31*	*1*
Terphenyl-d14	*149*	*	*25 - 150*	*02/08/17 16:43*	*02/13/17 15:31*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/17 08:17	02/10/17 17:38	1
Barium	**0.53**		0.50	0.050	mg/L		02/10/17 08:17	02/10/17 17:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 08:17	02/10/17 17:38	1
Cadmium	**0.0030**	**J**	0.0050	0.0020	mg/L		02/10/17 08:17	02/10/17 17:38	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:38	1
Cobalt	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:38	1
Copper	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:38	1
Iron	<0.40		0.40	0.20	mg/L		02/10/17 08:17	02/10/17 17:38	1
Lead	**0.012**		0.0075	0.0075	mg/L		02/10/17 08:17	02/10/17 17:38	1
Manganese	**1.1**		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:38	1
Nickel	**0.011**	**J**	0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:38	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 08:17	02/10/17 17:38	1
Silver	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:38	1
Zinc	**0.12**	**J**	0.50	0.020	mg/L		02/10/17 08:17	02/10/17 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.033**	**J**	0.050	0.010	mg/L		02/10/17 08:18	02/11/17 17:45	1
Barium	**0.85**		0.50	0.050	mg/L		02/10/17 08:18	02/11/17 17:45	1
Beryllium	**0.0064**		0.0040	0.0040	mg/L		02/10/17 08:18	02/11/17 17:45	1
Cadmium	**0.0039**	**J**	0.0050	0.0020	mg/L		02/10/17 08:18	02/11/17 17:45	1
Chromium	**0.17**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:45	1
Cobalt	**0.049**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:45	1
Copper	**0.18**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:45	1
Iron	**150**		0.40	0.20	mg/L		02/10/17 08:18	02/11/17 17:45	1
Lead	**0.89**		0.0075	0.0075	mg/L		02/10/17 08:18	02/11/17 17:45	1
Manganese	**1.3**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:45	1
Nickel	**0.14**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:45	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 08:18	02/11/17 17:45	1

Client Sample ID: A15-5(0-1)-020617
Date Collected: 02/06/17 12:00
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-10
Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:45	1
Zinc	**1.1**		0.50	0.020	mg/L		02/10/17 08:18	02/11/17 17:45	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Arsenic	**4.7**		0.56	0.26	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Barium	**82**		0.56	0.10	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Beryllium	**0.61**		0.22	0.048	mg/Kg	☼	02/08/17 15:05	02/10/17 13:25	1
Cadmium	**0.27**		0.11	0.032	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Calcium	**24000**	**B**	11	3.6	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Chromium	**14**	**B**	0.56	0.096	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Cobalt	**6.8**		0.28	0.063	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Copper	**17**		0.56	0.12	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Iron	**13000**	**B**	11	4.3	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Lead	**76**		0.28	0.14	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Magnesium	**16000**	**B**	5.6	2.3	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Manganese	**220**	**B**	0.56	0.11	mg/Kg	☼	02/08/17 15:05	02/10/17 13:25	1
Nickel	**16**		0.56	0.15	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Potassium	**1100**		28	4.5	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Selenium	**0.33**	**J**	0.56	0.28	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Sodium	**2000**		56	7.4	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Vanadium	**18**		0.28	0.081	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1
Zinc	**71**		1.1	0.35	mg/Kg	☼	02/08/17 15:05	02/10/17 00:05	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/09/17 13:45	02/10/17 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/09/17 13:45	02/10/17 12:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**45**		20	10	ug/Kg	☼	02/07/17 14:30	02/08/17 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.1**		0.2	0.2	SU			02/08/17 17:00	1

Client Sample ID: A15-5(0-1)-020617D
Date Collected: 02/06/17 12:00
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-11
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	20		17	7.3	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Benzene	<1.7		1.7	0.43	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Bromodichloromethane	<1.7		1.7	0.34	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Bromoform	<1.7		1.7	0.49	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Bromomethane	<4.2		4.2	1.6	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Carbon disulfide	<4.2		4.2	0.87	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Carbon tetrachloride	<1.7		1.7	0.49	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Chlorobenzene	<1.7		1.7	0.62	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Chloroethane	<4.2		4.2	1.2	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Chloroform	<1.7		1.7	0.58	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Chloromethane	<4.2		4.2	1.7	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
cis-1,2-Dichloroethene	<1.7		1.7	0.47	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
cis-1,3-Dichloropropene	<1.7		1.7	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Dibromochloromethane	<1.7		1.7	0.55	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
1,1-Dichloroethane	<1.7		1.7	0.57	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
1,2-Dichloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
1,1-Dichloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
1,2-Dichloropropane	<1.7		1.7	0.43	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
1,3-Dichloropropene, Total	<1.7		1.7	0.59	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Ethylbenzene	<1.7		1.7	0.80	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
2-Hexanone	<4.2		4.2	1.3	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Methylene Chloride	<4.2		4.2	1.7	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Methyl Ethyl Ketone	<4.2		4.2	1.9	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
methyl isobutyl ketone	<4.2		4.2	1.2	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Methyl tert-butyl ether	<1.7		1.7	0.49	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Styrene	<1.7		1.7	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.54	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Tetrachloroethene	<1.7		1.7	0.57	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Toluene	<1.7		1.7	0.42	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
trans-1,2-Dichloroethene	<1.7		1.7	0.74	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
trans-1,3-Dichloropropene	<1.7		1.7	0.59	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
1,1,1-Trichloroethane	<1.7		1.7	0.56	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
1,1,2-Trichloroethane	<1.7		1.7	0.72	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Trichloroethene	<1.7		1.7	0.57	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Vinyl chloride	<1.7		1.7	0.74	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1
Xylenes, Total	<3.4		3.4	0.54	ug/Kg	☼	02/07/17 08:45	02/08/17 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 120*	*02/07/17 08:45*	*02/08/17 16:34*	*1*
Dibromofluoromethane	*104*		*75 - 120*	*02/07/17 08:45*	*02/08/17 16:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*69 - 134*	*02/07/17 08:45*	*02/08/17 16:34*	*1*
Toluene-d8 (Surr)	*93*		*75 - 123*	*02/07/17 08:45*	*02/08/17 16:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1

Client Sample ID: A15-5(0-1)-020617D
Date Collected: 02/06/17 12:00
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-11
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
2-Methylnaphthalene	<77		77	7.0	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
2-Methylphenol	<190		190	61	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
4,6-Dinitro-2-methylphenol	<770		770	300	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Anthracene	<38		38	6.3	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Benzo[a]anthracene	**17**	**J**	38	5.1	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Benzo[a]pyrene	**21**	**J ***	38	7.3	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Benzo[b]fluoranthene	**46**	*****	38	8.2	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Benzo[g,h,i]perylene	**16**	**J ***	38	12	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Benzo[k]fluoranthene	**15**	**J ***	38	11	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Carbazole	<190		190	95	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Chrysene	**24**	**J**	38	10	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Dibenz(a,h)anthracene	<38	*	38	7.3	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Dibenzofuran	<190		190	44	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Fluoranthene	**31**	**J**	38	7.0	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Fluorene	<38		38	5.3	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Hexachloroethane	<190		190	58	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1

Client Sample ID: A15-5(0-1)-020617D
Date Collected: 02/06/17 12:00
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-11
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**10**	**J ***	38	9.8	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Isophorone	<190		190	43	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Naphthalene	<38		38	5.8	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
N-Nitrosodi-n-propylamine	<77		77	46	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Phenanthrene	**16**	**J**	38	5.3	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Phenol	<190		190	84	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1
Pyrene	**42**		38	7.5	ug/Kg	☼	02/08/17 16:43	02/09/17 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*66*		*25 - 130*	*02/08/17 16:43*	*02/09/17 11:57*	*1*
2-Fluorobiphenyl	*53*		*42 - 115*	*02/08/17 16:43*	*02/09/17 11:57*	*1*
2-Fluorophenol	*47*		*40 - 130*	*02/08/17 16:43*	*02/09/17 11:57*	*1*
Nitrobenzene-d5	*40*		*33 - 124*	*02/08/17 16:43*	*02/09/17 11:57*	*1*
Phenol-d5	*57*		*36 - 123*	*02/08/17 16:43*	*02/09/17 11:57*	*1*
Terphenyl-d14	*99*		*25 - 150*	*02/08/17 16:43*	*02/09/17 11:57*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/17 08:17	02/10/17 17:45	1
Barium	**0.37**	**J**	0.50	0.050	mg/L		02/10/17 08:17	02/10/17 17:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 08:17	02/10/17 17:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 08:17	02/10/17 17:45	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:45	1
Cobalt	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:45	1
Copper	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:45	1
Iron	<0.40		0.40	0.20	mg/L		02/10/17 08:17	02/10/17 17:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/17 08:17	02/10/17 17:45	1
Manganese	**0.37**		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:45	1
Nickel	**0.010**	**J**	0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:45	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 08:17	02/10/17 17:45	1
Silver	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:45	1
Zinc	**0.032**	**J**	0.50	0.020	mg/L		02/10/17 08:17	02/10/17 17:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.032**	**J**	0.050	0.010	mg/L		02/10/17 08:18	02/11/17 17:48	1
Barium	**0.60**		0.50	0.050	mg/L		02/10/17 08:18	02/11/17 17:48	1
Beryllium	**0.0057**		0.0040	0.0040	mg/L		02/10/17 08:18	02/11/17 17:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 08:18	02/11/17 17:48	1
Chromium	**0.17**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:48	1
Cobalt	**0.041**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:48	1
Copper	**0.12**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:48	1
Iron	**150**		0.40	0.20	mg/L		02/10/17 08:18	02/11/17 17:48	1
Lead	**0.15**		0.0075	0.0075	mg/L		02/10/17 08:18	02/11/17 17:48	1
Manganese	**0.82**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:48	1
Nickel	**0.14**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:48	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 08:18	02/11/17 17:48	1

Client Sample ID: A15-5(0-1)-020617D
Date Collected: 02/06/17 12:00
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-11
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:48	1
Zinc	**0.53**		0.50	0.020	mg/L		02/10/17 08:18	02/11/17 17:48	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.28**	**J**	1.1	0.23	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Arsenic	**5.3**		0.56	0.26	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Barium	**76**		0.56	0.10	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Beryllium	**0.64**		0.22	0.049	mg/Kg	☼	02/08/17 15:05	02/10/17 13:30	1
Cadmium	**0.20**		0.11	0.033	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Calcium	**23000**	**B**	11	3.6	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Chromium	**14**	**B**	0.56	0.097	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Cobalt	**7.1**		0.28	0.063	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Copper	**17**		0.56	0.12	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Iron	**14000**	**B**	11	4.3	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Lead	**36**		0.28	0.14	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Magnesium	**16000**	**B**	5.6	2.3	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Manganese	**210**	**B**	0.56	0.11	mg/Kg	☼	02/08/17 15:05	02/10/17 13:30	1
Nickel	**21**		0.56	0.15	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Potassium	**1200**		28	4.6	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Sodium	**2000**		56	7.4	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Vanadium	**18**		0.28	0.082	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1
Zinc	**67**		1.1	0.36	mg/Kg	☼	02/08/17 15:05	02/10/17 00:16	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/09/17 13:45	02/10/17 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/09/17 13:45	02/10/17 12:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**19**		17	9.1	ug/Kg	☼	02/07/17 14:30	02/08/17 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.4**		0.2	0.2	SU			02/08/17 17:03	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123502-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
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.
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.

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)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123502-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6(
Phone: 708.534.5200 Fax: 708.53

500-123502 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Lindenhurst, IL 60046
Phone:
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123502

Chain of Custody Number:

Page 4 of 6

Temperature °C of Cooler: 3.1, 2.6, 4.3, 2.9, 3.5 2/2/17

Client: Weston
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher / IL
Lab Project #:
Sampler: JB
Lab PM: Dick Waylett

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	Parameter: SVOC	Parameter: Total metals	Parameter: TCLP / SPLP Metals	Parameter: pH	Comments
1		A23-1(0-1)-020617	2/6/17	10:25	6	SO		X	X	X	X	X	
2		A15-1(0-1)-020617		10:40									
3		A15-2(0-1)-020617		10:48									
4		A15-3(0-1)-020617		10:55									
5		A15-4(0-1)-020617		11:00									
6		F20-1(0-1)-020617		11:10									
7		VL19-1(0-1)-020617		11:20									
8		VL19-2(0-1)-020617		11:35									
9		VL19-3(0-1)-020617		1145									
10		A15-5(0-1)-020617		12:00				X	X	X	X	X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/6/17	1710	[signature]	TA	2/6/17	1710
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: SS 2/7/17 TA
Shipped:
Hand Delivered: X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

2/14/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-123502

Chain of Custody Number:

Page 5 of 6

Temperature °C of Cooler:

Report To (optional)	Bill To (optional)
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company: S
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address: A
Phone:	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston Solutions		
Project Name		Parameter
IDOT 053		
Project Location/State	Lab Project #	
Beedmee / IL		
Sampler	Lab PM	
JB	Dirk Wright	

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals 13	TCLP SPLP Metals	PH					Comments
11		A15-5(0-1)-020617D	2/6/17	12:00	6	SO	X	X	X	X	X					
12		A15-6(0-1)-020617		12:10												
13		R18-1(0-1)-020617		12:20												
14		F17-1(0-1)-020617		12:30												
15		A15-7(0-1)-020617		12:45												
16		A15-8(0-1)-020617		13:00												
17		FK-1(0-1)-020617		13:10												
18		A9-1(0-1)-020617		13:20												
19		A13-1(0-1)-020617		13:30												
20		A11-1(0-1)-020617		13:40			X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	2/6/17	1710		TA	2/6/17	1710
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Ctr, Ste 201
Address: Mundelein, IL 60060
Phone: 224-836-4250
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123502
Chain of Custody Number:
Page 6 of 6
Temperature °C of Cooler:

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beedsville IL
Lab Project #:
Sampler: JB
Lab PM:

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP Metals SPLP Metals	PH					Comments
21		A9-2(0-1)-020617	2/6/17	14:00	6	SO	X	X	X	X	X					
22		A9-2(0-1)-020617D		14:00			X	X	X	X	X					
23		A9-3(0-1)-020617		14:10			X	X	X	X	X					
24		F10-1(0-1)-020617		14:30			X	X	X	X	X					

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	2/6/17	1710		TA	2/6/17	1710

Lab Courier
Shipped
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500(1209)

2/14/2017

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: 500-123557-1
Client Project/Site: IDOT - Illinois Route 1 - WO 053

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
2/15/2017 5:08:23 PM

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

Client Sample ID: A15-12(0-1)-020717
Date Collected: 02/07/17 10:20
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-7
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<18		18	8.0	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Benzene	<1.8		1.8	0.47	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Bromoform	<1.8		1.8	0.54	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Bromomethane	<4.6		4.6	1.7	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Carbon disulfide	<4.6		4.6	0.96	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Carbon tetrachloride	<1.8		1.8	0.53	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Chlorobenzene	<1.8		1.8	0.68	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Chloroethane	<4.6		4.6	1.4	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Chloroform	<1.8		1.8	0.64	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Chloromethane	<4.6		4.6	1.8	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
cis-1,2-Dichloroethene	<1.8		1.8	0.51	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
cis-1,3-Dichloropropene	<1.8		1.8	0.55	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Dibromochloromethane	<1.8		1.8	0.60	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
1,1-Dichloroethane	<1.8		1.8	0.63	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
1,2-Dichloroethane	<4.6		4.6	1.4	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
1,1-Dichloroethene	<1.8		1.8	0.63	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
1,2-Dichloropropane	<1.8		1.8	0.48	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
1,3-Dichloropropene, Total	<1.8		1.8	0.65	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Ethylbenzene	<1.8		1.8	0.88	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
2-Hexanone	<4.6		4.6	1.4	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Methylene Chloride	<4.6		4.6	1.8	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Methyl Ethyl Ketone	<4.6		4.6	2.0	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
methyl isobutyl ketone	<4.6		4.6	1.4	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Methyl tert-butyl ether	<1.8		1.8	0.54	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Styrene	<1.8		1.8	0.56	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.59	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Tetrachloroethene	<1.8		1.8	0.63	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
trans-1,2-Dichloroethene	<1.8		1.8	0.81	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
trans-1,3-Dichloropropene	<1.8		1.8	0.65	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
1,1,1-Trichloroethane	<1.8		1.8	0.62	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
1,1,2-Trichloroethane	<1.8		1.8	0.79	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Trichloroethene	<1.8		1.8	0.62	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Vinyl chloride	<1.8		1.8	0.81	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1
Xylenes, Total	<3.7		3.7	0.59	ug/Kg	☼	02/08/17 09:20	02/09/17 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 120*	*02/08/17 09:20*	*02/09/17 14:39*	*1*
Dibromofluoromethane	*100*		*75 - 120*	*02/08/17 09:20*	*02/09/17 14:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*69 - 134*	*02/08/17 09:20*	*02/09/17 14:39*	*1*
Toluene-d8 (Surr)	*109*		*75 - 123*	*02/08/17 09:20*	*02/09/17 14:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1

Client Sample ID: A15-12(0-1)-020717
Date Collected: 02/07/17 10:20
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-7
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
2-Methylnaphthalene	<78		78	7.1	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
2-Methylphenol	<190		190	62	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
3,3'-Dichlorobenzidine	<190	*	190	54	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Anthracene	<38		38	6.4	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Benzo[a]anthracene	**21**	**J ***	38	5.2	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Benzo[a]pyrene	**29**	**J ***	38	7.5	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Benzo[b]fluoranthene	**38**	*****	38	8.3	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Benzo[g,h,i]perylene	**22**	**J ***	38	12	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Benzo[k]fluoranthene	**15**	**J ***	38	11	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Bis(2-ethylhexyl) phthalate	<190	*	190	70	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Butyl benzyl phthalate	<190	*	190	73	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Carbazole	<190		190	96	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Chrysene	**26**	**J ***	38	11	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Dibenz(a,h)anthracene	<38	*	38	7.4	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Dibenzofuran	<190		190	45	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Fluoranthene	**22**	**J**	38	7.1	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Fluorene	<38		38	5.4	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Hexachloroethane	<190		190	59	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1

Client Sample ID: A15-12(0-1)-020717
Date Collected: 02/07/17 10:20
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-7
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38	*	38	10	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Isophorone	<190		190	43	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Naphthalene	<38		38	5.9	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Phenanthrene	**13**	**J**	38	5.4	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Phenol	<190		190	86	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1
Pyrene	**44**	*****	38	7.7	ug/Kg	☼	02/09/17 19:45	02/13/17 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*74*		*25 - 130*	*02/09/17 19:45*	*02/13/17 16:56*	*1*
2-Fluorobiphenyl	*75*		*42 - 115*	*02/09/17 19:45*	*02/13/17 16:56*	*1*
2-Fluorophenol	*88*		*40 - 130*	*02/09/17 19:45*	*02/13/17 16:56*	*1*
Nitrobenzene-d5	*85*		*33 - 124*	*02/09/17 19:45*	*02/13/17 16:56*	*1*
Phenol-d5	*90*		*36 - 123*	*02/09/17 19:45*	*02/13/17 16:56*	*1*
Terphenyl-d14	*171*	*X **	*25 - 150*	*02/09/17 19:45*	*02/13/17 16:56*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.011**	**J**	0.050	0.010	mg/L		02/10/17 09:10	02/10/17 22:18	1
Barium	**0.33**	**J**	0.50	0.050	mg/L		02/10/17 09:10	02/10/17 22:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 09:10	02/10/17 22:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 09:10	02/10/17 22:18	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:18	1
Cobalt	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:18	1
Copper	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:18	1
Iron	<0.40		0.40	0.20	mg/L		02/10/17 09:10	02/10/17 22:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/17 09:10	02/10/17 22:18	1
Manganese	**3.1**		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:18	1
Nickel	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:18	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 09:10	02/10/17 22:18	1
Silver	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:18	1
Zinc	**0.023**	**J**	0.50	0.020	mg/L		02/10/17 09:10	02/10/17 22:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.072**		0.050	0.010	mg/L		02/11/17 09:08	02/13/17 11:38	1
Barium	**1.0**		0.50	0.050	mg/L		02/11/17 09:08	02/13/17 11:38	1
Beryllium	**0.011**		0.0040	0.0040	mg/L		02/11/17 09:08	02/13/17 11:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/17 09:08	02/13/17 11:38	1
Chromium	**0.26**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 11:38	1
Cobalt	**0.098**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 11:38	1
Copper	**0.23**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 11:38	1
Iron	**250**		0.40	0.20	mg/L		02/11/17 09:08	02/13/17 11:38	1
Lead	**1.1**		0.0075	0.0075	mg/L		02/11/17 09:08	02/13/17 11:38	1
Manganese	**2.6**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 11:38	1
Nickel	**0.26**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 11:38	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/17 09:08	02/13/17 11:38	1

Client Sample ID: A15-12(0-1)-020717
Date Collected: 02/07/17 10:20
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-7
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 11:38	1
Zinc	**0.93**		0.50	0.020	mg/L		02/11/17 09:08	02/13/17 11:38	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.31**	**J**	1.1	0.22	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Arsenic	**7.5**		0.53	0.25	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Barium	**57**		0.53	0.097	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Beryllium	**0.66**		0.21	0.046	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Cadmium	**0.20**		0.11	0.031	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Calcium	**7000**	**B**	11	3.4	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Chromium	**18**		0.53	0.091	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Cobalt	**12**		0.27	0.060	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Copper	**20**		0.53	0.12	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Iron	**19000**		11	4.1	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Lead	**62**	**B**	0.27	0.13	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Magnesium	**6700**	**B**	5.3	2.2	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Manganese	**310**		0.53	0.11	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Nickel	**30**		0.53	0.14	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Potassium	**1900**		27	4.3	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Selenium	**0.36**	**J**	0.53	0.26	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Sodium	**2700**		53	7.0	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Vanadium	**20**		0.27	0.078	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1
Zinc	**65**		1.1	0.34	mg/Kg	☼	02/09/17 08:38	02/11/17 06:58	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/10/17 13:00	02/13/17 11:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/10/17 13:00	02/13/17 10:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**24**		20	11	ug/Kg	☼	02/08/17 15:45	02/09/17 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**		0.2	0.2	SU			02/11/17 10:14	1

Client Sample ID: A15-15(0-1)-020717
Date Collected: 02/07/17 10:57
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-10
Matrix: Solid
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<18		18	7.9	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Benzene	<1.8		1.8	0.46	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Bromoform	<1.8		1.8	0.53	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Bromomethane	<4.5		4.5	1.7	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Carbon disulfide	<4.5		4.5	0.94	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Carbon tetrachloride	<1.8		1.8	0.52	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Chlorobenzene	<1.8		1.8	0.67	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Chloroethane	<4.5		4.5	1.3	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Chloroform	<1.8		1.8	0.63	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Chloromethane	<4.5		4.5	1.8	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
cis-1,2-Dichloroethene	<1.8		1.8	0.50	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
cis-1,3-Dichloropropene	<1.8		1.8	0.54	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Dibromochloromethane	<1.8		1.8	0.59	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
1,1-Dichloroethane	<1.8		1.8	0.62	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
1,2-Dichloroethane	<4.5		4.5	1.4	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
1,1-Dichloroethene	<1.8		1.8	0.62	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
1,2-Dichloropropane	<1.8		1.8	0.47	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
1,3-Dichloropropene, Total	<1.8		1.8	0.63	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Ethylbenzene	<1.8		1.8	0.86	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
2-Hexanone	<4.5		4.5	1.4	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Methylene Chloride	<4.5		4.5	1.8	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Methyl Ethyl Ketone	<4.5		4.5	2.0	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
methyl isobutyl ketone	<4.5		4.5	1.3	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Methyl tert-butyl ether	<1.8		1.8	0.53	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Styrene	<1.8		1.8	0.54	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.58	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Tetrachloroethene	<1.8		1.8	0.61	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
trans-1,2-Dichloroethene	<1.8		1.8	0.80	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
trans-1,3-Dichloropropene	<1.8		1.8	0.63	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
1,1,1-Trichloroethane	<1.8		1.8	0.60	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
1,1,2-Trichloroethane	<1.8		1.8	0.77	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Trichloroethene	<1.8		1.8	0.61	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Vinyl chloride	<1.8		1.8	0.80	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1
Xylenes, Total	<3.6		3.6	0.58	ug/Kg	☼	02/08/17 09:20	02/09/17 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*	*X*	*70 - 120*	*02/08/17 09:20*	*02/09/17 15:51*	*1*
Dibromofluoromethane	*97*		*75 - 120*	*02/08/17 09:20*	*02/09/17 15:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*69 - 134*	*02/08/17 09:20*	*02/09/17 15:51*	*1*
Toluene-d8 (Surr)	*109*		*75 - 123*	*02/08/17 09:20*	*02/09/17 15:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1

Client Sample ID: A15-15(0-1)-020717
Date Collected: 02/07/17 10:57
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-10
Matrix: Solid
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
2-Methylnaphthalene	<71		71	6.5	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
2-Methylphenol	<180		180	57	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
4-Nitrophenol	<710		710	340	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Acenaphthene	<35		35	6.4	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Acenaphthylene	<35		35	4.7	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Anthracene	<35		35	5.9	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Benzo[a]anthracene	<35		35	4.8	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Benzo[a]pyrene	<35		35	6.9	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Benzo[b]fluoranthene	**8.9**	**J**	35	7.6	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Benzo[g,h,i]perylene	<35		35	11	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Benzo[k]fluoranthene	<35		35	10	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Butyl benzyl phthalate	<180		180	67	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Carbazole	<180		180	88	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Chrysene	<35		35	9.7	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Dibenz(a,h)anthracene	<35		35	6.8	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Dibenzofuran	<180		180	41	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Fluoranthene	**9.7**	**J**	35	6.6	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Fluorene	<35		35	5.0	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Hexachloroethane	<180		180	54	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1

Client Sample ID: A15-15(0-1)-020717
Date Collected: 02/07/17 10:57
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-10
Matrix: Solid
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<35		35	9.2	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Isophorone	<180		180	40	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Naphthalene	<35		35	5.4	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Pentachlorophenol	<710		710	570	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Phenanthrene	<35		35	4.9	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Phenol	<180		180	79	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1
Pyrene	**9.1**	**J**	35	7.0	ug/Kg	☼	02/09/17 19:45	02/10/17 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*25 - 130*	*02/09/17 19:45*	*02/10/17 12:19*	*1*
2-Fluorobiphenyl	*74*		*42 - 115*	*02/09/17 19:45*	*02/10/17 12:19*	*1*
2-Fluorophenol	*72*		*40 - 130*	*02/09/17 19:45*	*02/10/17 12:19*	*1*
Nitrobenzene-d5	*66*		*33 - 124*	*02/09/17 19:45*	*02/10/17 12:19*	*1*
Phenol-d5	*74*		*36 - 123*	*02/09/17 19:45*	*02/10/17 12:19*	*1*
Terphenyl-d14	*94*		*25 - 150*	*02/09/17 19:45*	*02/10/17 12:19*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/17 09:10	02/10/17 22:40	1
Barium	**0.30**	**J**	0.50	0.050	mg/L		02/10/17 09:10	02/10/17 22:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 09:10	02/10/17 22:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 09:10	02/10/17 22:40	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:40	1
Cobalt	**0.021**	**J**	0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:40	1
Copper	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:40	1
Iron	<0.40		0.40	0.20	mg/L		02/10/17 09:10	02/10/17 22:40	1
Lead	**0.010**		0.0075	0.0075	mg/L		02/10/17 09:10	02/10/17 22:40	1
Manganese	**1.9**		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:40	1
Nickel	**0.020**	**J**	0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:40	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 09:10	02/10/17 22:40	1
Silver	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:40	1
Zinc	**0.13**	**J**	0.50	0.020	mg/L		02/10/17 09:10	02/10/17 22:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/11/17 09:08	02/13/17 12:06	1
Barium	**0.081**	**J**	0.50	0.050	mg/L		02/11/17 09:08	02/13/17 12:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/17 09:08	02/13/17 12:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/17 09:08	02/13/17 12:06	1
Chromium	**0.021**	**J**	0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:06	1
Cobalt	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:06	1
Copper	**0.031**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:06	1
Iron	**14**		0.40	0.20	mg/L		02/11/17 09:08	02/13/17 12:06	1
Lead	**0.079**		0.0075	0.0075	mg/L		02/11/17 09:08	02/13/17 12:06	1
Manganese	**0.11**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:06	1
Nickel	**0.016**	**J**	0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:06	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/17 09:08	02/13/17 12:06	1

Client Sample ID: A15-15(0-1)-020717
Date Collected: 02/07/17 10:57
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-10
Matrix: Solid
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:06	1
Zinc	**0.10**	**J**	0.50	0.020	mg/L		02/11/17 09:08	02/13/17 12:06	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.31**	**J**	1.1	0.23	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Arsenic	**2.4**		0.54	0.25	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Barium	**21**		0.54	0.099	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Beryllium	**0.20**	**J**	0.22	0.047	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Cadmium	**0.20**		0.11	0.031	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Calcium	**220000**	**B**	110	35	mg/Kg	☼	02/09/17 08:38	02/11/17 21:57	10
Chromium	**6.2**		0.54	0.093	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Cobalt	**3.5**		0.27	0.061	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Copper	**12**		0.54	0.12	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Iron	**4600**		11	4.2	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Lead	**52**	**B**	0.27	0.14	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Magnesium	**140000**	**B**	54	22	mg/Kg	☼	02/09/17 08:38	02/11/17 21:57	10
Manganese	**180**		0.54	0.11	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Nickel	**7.9**		0.54	0.15	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Potassium	**750**		27	4.4	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Sodium	**610**		54	7.2	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Vanadium	**5.5**		0.27	0.079	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1
Zinc	**45**		1.1	0.34	mg/Kg	☼	02/09/17 08:38	02/11/17 07:18	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/10/17 13:00	02/13/17 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/10/17 13:00	02/13/17 10:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**15**	**J**	18	9.5	ug/Kg	☼	02/08/17 15:45	02/09/17 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.9**		0.2	0.2	SU			02/11/17 10:26	1

Client Sample ID: A15-16(0-1)-020717
Date Collected: 02/07/17 11:15
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-11
Matrix: Solid
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<18		18	7.9	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Benzene	<1.8		1.8	0.46	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Bromoform	<1.8		1.8	0.53	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Bromomethane	<4.5		4.5	1.7	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Carbon disulfide	<4.5		4.5	0.94	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Carbon tetrachloride	<1.8		1.8	0.52	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Chlorobenzene	<1.8		1.8	0.67	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Chloroethane	<4.5		4.5	1.3	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Chloroform	<1.8		1.8	0.63	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Chloromethane	<4.5		4.5	1.8	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
cis-1,2-Dichloroethene	<1.8		1.8	0.51	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
cis-1,3-Dichloropropene	<1.8		1.8	0.55	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Dibromochloromethane	<1.8		1.8	0.59	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
1,1-Dichloroethane	<1.8		1.8	0.62	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
1,2-Dichloroethane	<4.5		4.5	1.4	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
1,1-Dichloroethene	<1.8		1.8	0.62	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
1,2-Dichloropropane	<1.8		1.8	0.47	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
1,3-Dichloropropene, Total	<1.8		1.8	0.63	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Ethylbenzene	<1.8		1.8	0.87	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
2-Hexanone	<4.5		4.5	1.4	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Methylene Chloride	<4.5		4.5	1.8	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Methyl Ethyl Ketone	<4.5		4.5	2.0	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
methyl isobutyl ketone	<4.5		4.5	1.3	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Methyl tert-butyl ether	<1.8		1.8	0.53	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Styrene	<1.8		1.8	0.55	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.58	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Tetrachloroethene	<1.8		1.8	0.62	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
trans-1,2-Dichloroethene	<1.8		1.8	0.80	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
trans-1,3-Dichloropropene	<1.8		1.8	0.63	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
1,1,1-Trichloroethane	<1.8		1.8	0.61	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
1,1,2-Trichloroethane	<1.8		1.8	0.78	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Trichloroethene	<1.8		1.8	0.61	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Vinyl chloride	<1.8		1.8	0.80	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1
Xylenes, Total	**2.1**	**J**	3.6	0.58	ug/Kg	☼	02/08/17 09:20	02/09/17 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 120*	*02/08/17 09:20*	*02/09/17 16:15*	*1*
Dibromofluoromethane	*94*		*75 - 120*	*02/08/17 09:20*	*02/09/17 16:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*69 - 134*	*02/08/17 09:20*	*02/09/17 16:15*	*1*
Toluene-d8 (Surr)	*108*		*75 - 123*	*02/08/17 09:20*	*02/09/17 16:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
1,2-Dichlorobenzene	<170		170	42	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
1,4-Dichlorobenzene	<170		170	45	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1

Client Sample ID: A15-16(0-1)-020717
Date Collected: 02/07/17 11:15
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-11
Matrix: Solid
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	79	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
2-Methylnaphthalene	<70		70	6.4	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
2-Methylphenol	<170		170	56	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
2-Nitroaniline	<170		170	47	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
2-Nitrophenol	<350		350	82	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
3,3'-Dichlorobenzidine	<170	*	170	49	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
4-Bromophenyl phenyl ether	<170		170	46	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
4-Chlorophenyl phenyl ether	<170		170	41	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Acenaphthene	<35		35	6.2	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Acenaphthylene	**7.7**	**J**	35	4.6	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Anthracene	**26**	**J**	35	5.8	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Benzo[a]anthracene	**100**	*	35	4.7	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Benzo[a]pyrene	**130**	*	35	6.7	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Benzo[b]fluoranthene	**180**	*	35	7.5	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Benzo[g,h,i]perylene	**86**	*	35	11	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Benzo[k]fluoranthene	**68**	*	35	10	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Bis(2-ethylhexyl) phthalate	<170	*	170	63	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Butyl benzyl phthalate	<170	*	170	66	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Carbazole	<170		170	87	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Chrysene	**120**	*	35	9.5	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Dibenz(a,h)anthracene	<35	*	35	6.7	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Dibenzofuran	<170		170	41	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Di-n-butyl phthalate	<170		170	53	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Di-n-octyl phthalate	<170		170	57	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Fluoranthene	**170**		35	6.4	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Fluorene	**7.4**	**J**	35	4.9	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Hexachlorobenzene	<70		70	8.1	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Hexachlorobutadiene	<170		170	55	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Hexachloroethane	<170		170	53	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1

Client Sample ID: A15-16(0-1)-020717
Date Collected: 02/07/17 11:15
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-11
Matrix: Solid
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**50**	*	35	9.0	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Isophorone	<170		170	39	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Naphthalene	**5.8**	J	35	5.3	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
N-Nitrosodi-n-propylamine	<70		70	42	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Phenanthrene	**110**		35	4.8	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Phenol	<170		170	77	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1
Pyrene	**300**	*	35	6.9	ug/Kg	☼	02/09/17 19:45	02/13/17 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*68*		*25 - 130*	*02/09/17 19:45*	*02/13/17 18:20*	*1*
2-Fluorobiphenyl	*73*		*42 - 115*	*02/09/17 19:45*	*02/13/17 18:20*	*1*
2-Fluorophenol	*87*		*40 - 130*	*02/09/17 19:45*	*02/13/17 18:20*	*1*
Nitrobenzene-d5	*79*		*33 - 124*	*02/09/17 19:45*	*02/13/17 18:20*	*1*
Phenol-d5	*93*		*36 - 123*	*02/09/17 19:45*	*02/13/17 18:20*	*1*
Terphenyl-d14	*180*	*X *	*25 - 150*	*02/09/17 19:45*	*02/13/17 18:20*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/17 09:10	02/10/17 22:49	1
Barium	**0.11**	J	0.50	0.050	mg/L		02/10/17 09:10	02/10/17 22:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 09:10	02/10/17 22:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 09:10	02/10/17 22:49	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:49	1
Cobalt	**0.014**	J	0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:49	1
Copper	**0.026**		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:49	1
Iron	<0.40		0.40	0.20	mg/L		02/10/17 09:10	02/10/17 22:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/17 09:10	02/10/17 22:49	1
Manganese	**0.35**		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:49	1
Nickel	**0.012**	J	0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:49	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 09:10	02/10/17 22:49	1
Silver	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:49	1
Zinc	**0.027**	J	0.50	0.020	mg/L		02/10/17 09:10	02/10/17 22:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/11/17 09:08	02/13/17 12:09	1
Barium	<0.50		0.50	0.050	mg/L		02/11/17 09:08	02/13/17 12:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/17 09:08	02/13/17 12:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/17 09:08	02/13/17 12:09	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:09	1
Cobalt	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:09	1
Copper	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:09	1
Iron	<0.40		0.40	0.20	mg/L		02/11/17 09:08	02/13/17 12:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/17 09:08	02/13/17 12:09	1
Manganese	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:09	1
Nickel	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:09	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/17 09:08	02/13/17 12:09	1

Client Sample ID: A15-16(0-1)-020717
Date Collected: 02/07/17 11:15
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-11
Matrix: Solid
Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:09	1
Zinc	<0.50		0.50	0.020	mg/L		02/11/17 09:08	02/13/17 12:09	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.30**	**J**	0.99	0.21	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Arsenic	**3.5**		0.49	0.23	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Barium	**3.9**		0.49	0.090	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Beryllium	**0.083**	**J**	0.20	0.043	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Cadmium	**0.057**	**J**	0.099	0.029	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Calcium	**270000**	**B**	99	32	mg/Kg	☼	02/09/17 08:38	02/11/17 22:01	10
Chromium	**1.6**		0.49	0.085	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Cobalt	**2.2**		0.25	0.056	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Copper	**2.6**		0.49	0.11	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Iron	**2200**		9.9	3.8	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Lead	**1.9**	**B**	0.25	0.12	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Magnesium	**170000**	**B**	49	20	mg/Kg	☼	02/09/17 08:38	02/11/17 22:01	10
Manganese	**110**		0.49	0.098	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Nickel	**4.5**		0.49	0.13	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Potassium	**430**		25	4.0	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Sodium	**260**		49	6.5	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Vanadium	**1.7**		0.25	0.072	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1
Zinc	**7.0**		0.99	0.31	mg/Kg	☼	02/09/17 08:38	02/11/17 07:26	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/10/17 13:00	02/13/17 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/10/17 13:00	02/13/17 10:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<16		16	8.5	ug/Kg	☼	02/08/17 15:45	02/09/17 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**		0.2	0.2	SU			02/11/17 10:30	1

Client Sample ID: A15-17(0-1)-020717
Date Collected: 02/07/17 11:45
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-12
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<16		16	7.0	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Benzene	<1.6		1.6	0.41	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Bromodichloromethane	<1.6		1.6	0.33	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Bromoform	<1.6		1.6	0.47	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Bromomethane	<4.0		4.0	1.5	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Carbon disulfide	<4.0		4.0	0.83	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Carbon tetrachloride	<1.6		1.6	0.46	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Chlorobenzene	<1.6		1.6	0.59	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Chloroethane	<4.0		4.0	1.2	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Chloroform	<1.6		1.6	0.55	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Chloromethane	<4.0		4.0	1.6	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
cis-1,2-Dichloroethene	<1.6		1.6	0.45	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
cis-1,3-Dichloropropene	<1.6		1.6	0.48	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Dibromochloromethane	<1.6		1.6	0.52	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
1,1-Dichloroethane	<1.6		1.6	0.55	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
1,2-Dichloroethane	<4.0		4.0	1.2	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
1,1-Dichloroethene	<1.6		1.6	0.55	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
1,2-Dichloropropane	<1.6		1.6	0.41	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
1,3-Dichloropropene, Total	<1.6		1.6	0.56	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Ethylbenzene	<1.6		1.6	0.76	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
2-Hexanone	<4.0		4.0	1.2	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Methylene Chloride	<4.0		4.0	1.6	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Methyl Ethyl Ketone	<4.0		4.0	1.8	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
methyl isobutyl ketone	<4.0		4.0	1.2	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Methyl tert-butyl ether	<1.6		1.6	0.47	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Styrene	<1.6		1.6	0.48	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.51	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Tetrachloroethene	<1.6		1.6	0.54	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Toluene	<1.6		1.6	0.40	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
trans-1,2-Dichloroethene	<1.6		1.6	0.71	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
trans-1,3-Dichloropropene	<1.6		1.6	0.56	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
1,1,1-Trichloroethane	<1.6		1.6	0.54	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
1,1,2-Trichloroethane	<1.6		1.6	0.69	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Trichloroethene	<1.6		1.6	0.54	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Vinyl chloride	<1.6		1.6	0.71	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1
Xylenes, Total	<3.2		3.2	0.51	ug/Kg	☼	02/08/17 09:20	02/09/17 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 120*	*02/08/17 09:20*	*02/09/17 16:39*	*1*
Dibromofluoromethane	*99*		*75 - 120*	*02/08/17 09:20*	*02/09/17 16:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*69 - 134*	*02/08/17 09:20*	*02/09/17 16:39*	*1*
Toluene-d8 (Surr)	*111*		*75 - 123*	*02/08/17 09:20*	*02/09/17 16:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1

Client Sample ID: A15-17(0-1)-020717
Date Collected: 02/07/17 11:45
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-12
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
2-Methylnaphthalene	**14**	**J**	78	7.1	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
2-Methylphenol	<190		190	62	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
3,3'-Dichlorobenzidine	<190	*	190	54	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Anthracene	**12**	**J**	38	6.4	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Benzo[a]anthracene	**49**	*****	38	5.2	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Benzo[a]pyrene	**59**	*****	38	7.4	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Benzo[b]fluoranthene	**68**	*****	38	8.3	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Benzo[g,h,i]perylene	**58**	*****	38	12	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Benzo[k]fluoranthene	**33**	**J ***	38	11	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Bis(2-ethylhexyl) phthalate	<190	*	190	70	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Butyl benzyl phthalate	<190	*	190	73	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Carbazole	<190		190	96	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Chrysene	**52**	*****	38	10	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Dibenz(a,h)anthracene	<38	*	38	7.4	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Dibenzofuran	<190		190	45	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Fluoranthene	**64**		38	7.1	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Fluorene	<38		38	5.4	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Hexachloroethane	<190		190	58	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1

Client Sample ID: A15-17(0-1)-020717
Date Collected: 02/07/17 11:45
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-12
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**33**	**J ***	38	10	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Isophorone	<190		190	43	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Naphthalene	**7.8**	**J**	38	5.9	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Phenanthrene	**54**		38	5.4	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Phenol	<190		190	85	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1
Pyrene	**140**	*****	38	7.6	ug/Kg	☼	02/09/17 19:45	02/13/17 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*57*		*25 - 130*	*02/09/17 19:45*	*02/13/17 21:08*	*1*
2-Fluorobiphenyl	*71*		*42 - 115*	*02/09/17 19:45*	*02/13/17 21:08*	*1*
2-Fluorophenol	*80*		*40 - 130*	*02/09/17 19:45*	*02/13/17 21:08*	*1*
Nitrobenzene-d5	*78*		*33 - 124*	*02/09/17 19:45*	*02/13/17 21:08*	*1*
Phenol-d5	*85*		*36 - 123*	*02/09/17 19:45*	*02/13/17 21:08*	*1*
Terphenyl-d14	*164*	*X **	*25 - 150*	*02/09/17 19:45*	*02/13/17 21:08*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/17 09:10	02/10/17 22:56	1
Barium	**0.28**	**J**	0.50	0.050	mg/L		02/10/17 09:10	02/10/17 22:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 09:10	02/10/17 22:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 09:10	02/10/17 22:56	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:56	1
Cobalt	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:56	1
Copper	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:56	1
Iron	<0.40		0.40	0.20	mg/L		02/10/17 09:10	02/10/17 22:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/17 09:10	02/10/17 22:56	1
Manganese	**1.2**		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:56	1
Nickel	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:56	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 09:10	02/10/17 22:56	1
Silver	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 22:56	1
Zinc	**0.056**	**J**	0.50	0.020	mg/L		02/10/17 09:10	02/10/17 22:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.018**	**J**	0.050	0.010	mg/L		02/11/17 09:08	02/13/17 12:12	1
Barium	**0.30**	**J**	0.50	0.050	mg/L		02/11/17 09:08	02/13/17 12:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/17 09:08	02/13/17 12:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/17 09:08	02/13/17 12:12	1
Chromium	**0.085**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:12	1
Cobalt	**0.023**	**J**	0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:12	1
Copper	**0.080**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:12	1
Iron	**73**		0.40	0.20	mg/L		02/11/17 09:08	02/13/17 12:12	1
Lead	**0.32**		0.0075	0.0075	mg/L		02/11/17 09:08	02/13/17 12:12	1
Manganese	**0.50**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:12	1
Nickel	**0.070**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:12	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/17 09:08	02/13/17 12:12	1

Client Sample ID: A15-17(0-1)-020717
Date Collected: 02/07/17 11:45
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-12
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:12	1
Zinc	**0.41**	**J**	0.50	0.020	mg/L		02/11/17 09:08	02/13/17 12:12	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.64**	**J**	1.1	0.23	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Arsenic	**3.6**		0.54	0.25	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Barium	**47**		0.54	0.10	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Beryllium	**0.41**		0.22	0.047	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Cadmium	**0.35**		0.11	0.032	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Calcium	**140000**	**B**	110	35	mg/Kg	☼	02/09/17 08:38	02/11/17 22:05	10
Chromium	**9.5**		0.54	0.094	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Cobalt	**9.5**		0.27	0.062	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Copper	**15**		0.54	0.12	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Iron	**8600**		11	4.2	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Lead	**89**	**B**	0.27	0.14	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Magnesium	**88000**	**B**	54	22	mg/Kg	☼	02/09/17 08:38	02/11/17 22:05	10
Manganese	**530**		0.54	0.11	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Nickel	**13**		0.54	0.15	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Potassium	**1100**		27	4.4	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Sodium	**1100**		54	7.2	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Vanadium	**13**		0.27	0.079	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1
Zinc	**100**		1.1	0.34	mg/Kg	☼	02/09/17 08:38	02/11/17 07:30	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/10/17 13:00	02/13/17 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/10/17 13:00	02/13/17 10:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**21**		19	9.9	ug/Kg	☼	02/08/17 15:45	02/09/17 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.5**		0.2	0.2	SU			02/11/17 10:34	1

Client Sample ID: A15-17(0-1)-020717D
Date Collected: 02/07/17 11:45
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-13
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<17		17	7.4	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Benzene	<1.7		1.7	0.43	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Bromodichloromethane	<1.7		1.7	0.34	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Bromoform	<1.7		1.7	0.49	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Bromomethane	<4.2		4.2	1.6	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Carbon disulfide	<4.2		4.2	0.88	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Carbon tetrachloride	<1.7		1.7	0.49	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Chlorobenzene	<1.7		1.7	0.63	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Chloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Chloroform	<1.7		1.7	0.59	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Chloromethane	<4.2		4.2	1.7	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
cis-1,2-Dichloroethene	<1.7		1.7	0.47	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
cis-1,3-Dichloropropene	<1.7		1.7	0.51	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Dibromochloromethane	<1.7		1.7	0.55	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
1,1-Dichloroethane	<1.7		1.7	0.58	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
1,2-Dichloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
1,1-Dichloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
1,2-Dichloropropane	<1.7		1.7	0.44	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
1,3-Dichloropropene, Total	<1.7		1.7	0.59	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Ethylbenzene	<1.7		1.7	0.81	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
2-Hexanone	<4.2		4.2	1.3	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Methylene Chloride	<4.2		4.2	1.7	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Methyl Ethyl Ketone	<4.2		4.2	1.9	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
methyl isobutyl ketone	<4.2		4.2	1.3	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Methyl tert-butyl ether	<1.7		1.7	0.50	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Styrene	<1.7		1.7	0.51	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.54	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Tetrachloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Toluene	<1.7		1.7	0.43	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
trans-1,2-Dichloroethene	<1.7		1.7	0.75	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
trans-1,3-Dichloropropene	<1.7		1.7	0.59	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
1,1,1-Trichloroethane	<1.7		1.7	0.57	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
1,1,2-Trichloroethane	<1.7		1.7	0.73	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Trichloroethene	<1.7		1.7	0.57	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Vinyl chloride	<1.7		1.7	0.75	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1
Xylenes, Total	<3.4		3.4	0.54	ug/Kg	☼	02/08/17 09:20	02/10/17 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 120*	*02/08/17 09:20*	*02/10/17 12:49*	*1*
Dibromofluoromethane	*90*		*75 - 120*	*02/08/17 09:20*	*02/10/17 12:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*69 - 134*	*02/08/17 09:20*	*02/10/17 12:49*	*1*
Toluene-d8 (Surr)	*110*		*75 - 123*	*02/08/17 09:20*	*02/10/17 12:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1

Client Sample ID: A15-17(0-1)-020717D
Date Collected: 02/07/17 11:45
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-13
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
2-Methylnaphthalene	<76		76	7.0	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
2-Methylphenol	<190		190	61	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
3,3'-Dichlorobenzidine	<190	*	190	53	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Anthracene	**12**	**J**	38	6.3	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Benzo[a]anthracene	**62**	**	38	5.1	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Benzo[a]pyrene	**91**	**	38	7.3	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Benzo[b]fluoranthene	**100**	**	38	8.2	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Benzo[g,h,i]perylene	**60**	**	38	12	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Benzo[k]fluoranthene	**58**	**	38	11	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Bis(2-ethylhexyl) phthalate	<190	*	190	69	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Butyl benzyl phthalate	<190	*	190	72	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Carbazole	<190		190	95	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Chrysene	**73**	**	38	10	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Dibenz(a,h)anthracene	**11**	**J *	38	7.3	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Dibenzofuran	<190		190	44	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Fluoranthene	**91**		38	7.0	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Fluorene	<38		38	5.3	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Hexachloroethane	<190		190	58	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1

Client Sample ID: A15-17(0-1)-020717D
Date Collected: 02/07/17 11:45
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-13
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**43**	*	38	9.8	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Isophorone	<190		190	43	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Naphthalene	<38		38	5.8	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Phenanthrene	**62**		38	5.3	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Phenol	<190		190	84	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1
Pyrene	**180**	*	38	7.5	ug/Kg	☼	02/09/17 19:45	02/13/17 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*59*		*25 - 130*	*02/09/17 19:45*	*02/13/17 18:48*	*1*
2-Fluorobiphenyl	*56*		*42 - 115*	*02/09/17 19:45*	*02/13/17 18:48*	*1*
2-Fluorophenol	*63*		*40 - 130*	*02/09/17 19:45*	*02/13/17 18:48*	*1*
Nitrobenzene-d5	*56*		*33 - 124*	*02/09/17 19:45*	*02/13/17 18:48*	*1*
Phenol-d5	*75*		*36 - 123*	*02/09/17 19:45*	*02/13/17 18:48*	*1*
Terphenyl-d14	*170*	*X *	*25 - 150*	*02/09/17 19:45*	*02/13/17 18:48*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.011**	J	0.050	0.010	mg/L		02/10/17 09:10	02/10/17 23:09	1
Barium	**0.30**	J	0.50	0.050	mg/L		02/10/17 09:10	02/10/17 23:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 09:10	02/10/17 23:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 09:10	02/10/17 23:09	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:09	1
Cobalt	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:09	1
Copper	**0.017**	J	0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:09	1
Iron	<0.40		0.40	0.20	mg/L		02/10/17 09:10	02/10/17 23:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/17 09:10	02/10/17 23:09	1
Manganese	**1.8**		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:09	1
Nickel	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:09	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 09:10	02/10/17 23:09	1
Silver	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:09	1
Zinc	**0.062**	J	0.50	0.020	mg/L		02/10/17 09:10	02/10/17 23:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.026**	J	0.050	0.010	mg/L		02/11/17 09:08	02/13/17 12:15	1
Barium	**0.43**	J	0.50	0.050	mg/L		02/11/17 09:08	02/13/17 12:15	1
Beryllium	**0.0040**		0.0040	0.0040	mg/L		02/11/17 09:08	02/13/17 12:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/17 09:08	02/13/17 12:15	1
Chromium	**0.11**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:15	1
Cobalt	**0.032**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:15	1
Copper	**0.10**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:15	1
Iron	**97**		0.40	0.20	mg/L		02/11/17 09:08	02/13/17 12:15	1
Lead	**0.30**		0.0075	0.0075	mg/L		02/11/17 09:08	02/13/17 12:15	1
Manganese	**0.68**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:15	1
Nickel	**0.091**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:15	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/17 09:08	02/13/17 12:15	1

Client Sample ID: A15-17(0-1)-020717D
Date Collected: 02/07/17 11:45
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-13
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:15	1
Zinc	**0.52**		0.50	0.020	mg/L		02/11/17 09:08	02/13/17 12:15	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.35**	**J**	1.1	0.22	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Arsenic	**2.8**		0.54	0.25	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Barium	**25**		0.54	0.098	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Beryllium	**0.27**		0.21	0.046	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Cadmium	**0.25**		0.11	0.031	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Calcium	**130000**	**B**	110	34	mg/Kg	☼	02/09/17 08:38	02/11/17 22:09	10
Chromium	**6.4**		0.54	0.092	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Cobalt	**3.6**		0.27	0.061	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Copper	**9.3**		0.54	0.12	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Iron	**5800**		11	4.1	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Lead	**46**	**B**	0.27	0.13	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Magnesium	**82000**	**B**	54	22	mg/Kg	☼	02/09/17 08:38	02/11/17 22:09	10
Manganese	**180**		0.54	0.11	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Nickel	**9.5**		0.54	0.15	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Potassium	**840**		27	4.4	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Sodium	**850**		54	7.1	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Vanadium	**12**		0.27	0.078	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1
Zinc	**45**		1.1	0.34	mg/Kg	☼	02/09/17 08:38	02/11/17 07:38	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/10/17 13:00	02/13/17 11:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/10/17 13:00	02/13/17 10:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**14**	**J**	17	9.1	ug/Kg	☼	02/08/17 15:45	02/09/17 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.4**		0.2	0.2	SU			02/11/17 10:38	1

Client Sample ID: A15-18(0-1)-020717
Date Collected: 02/07/17 12:15
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-14
Matrix: Solid
Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<17		17	7.5	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Benzene	<1.7		1.7	0.44	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Bromoform	<1.7		1.7	0.50	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Bromomethane	<4.3		4.3	1.6	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Carbon disulfide	<4.3		4.3	0.89	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Carbon tetrachloride	<1.7		1.7	0.50	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Chlorobenzene	<1.7		1.7	0.63	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Chloroethane	<4.3		4.3	1.3	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Chloroform	<1.7		1.7	0.59	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Chloromethane	<4.3		4.3	1.7	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
cis-1,2-Dichloroethene	<1.7		1.7	0.48	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
cis-1,3-Dichloropropene	<1.7		1.7	0.52	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Dibromochloromethane	<1.7		1.7	0.56	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
1,1-Dichloroethane	<1.7		1.7	0.59	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
1,2-Dichloroethane	<4.3		4.3	1.3	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
1,1-Dichloroethene	<1.7		1.7	0.59	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
1,2-Dichloropropane	<1.7		1.7	0.44	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
1,3-Dichloropropene, Total	<1.7		1.7	0.60	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Ethylbenzene	<1.7		1.7	0.82	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
2-Hexanone	<4.3		4.3	1.3	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Methylene Chloride	<4.3		4.3	1.7	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Methyl Ethyl Ketone	<4.3		4.3	1.9	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
methyl isobutyl ketone	<4.3		4.3	1.3	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Methyl tert-butyl ether	<1.7		1.7	0.50	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Styrene	<1.7		1.7	0.52	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.55	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Tetrachloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Toluene	<1.7		1.7	0.43	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
trans-1,2-Dichloroethene	<1.7		1.7	0.76	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
trans-1,3-Dichloropropene	<1.7		1.7	0.60	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
1,1,1-Trichloroethane	<1.7		1.7	0.57	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
1,1,2-Trichloroethane	<1.7		1.7	0.73	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Trichloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Vinyl chloride	<1.7		1.7	0.76	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1
Xylenes, Total	<3.4		3.4	0.55	ug/Kg	☼	02/08/17 09:20	02/09/17 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 120*	*02/08/17 09:20*	*02/09/17 17:27*	*1*
Dibromofluoromethane	*95*		*75 - 120*	*02/08/17 09:20*	*02/09/17 17:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*69 - 134*	*02/08/17 09:20*	*02/09/17 17:27*	*1*
Toluene-d8 (Surr)	*108*		*75 - 123*	*02/08/17 09:20*	*02/09/17 17:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	36	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
1,2-Dichlorobenzene	<170		170	40	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
1,3-Dichlorobenzene	<170		170	38	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
1,4-Dichlorobenzene	<170		170	43	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
2,2'-oxybis[1-chloropropane]	<170		170	39	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1

Client Sample ID: A15-18(0-1)-020717
Date Collected: 02/07/17 12:15
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-14
Matrix: Solid
Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<330		330	77	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
2,4,6-Trichlorophenol	<330		330	120	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
2,4-Dichlorophenol	<330		330	80	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
2,4-Dimethylphenol	<330		330	130	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
2,4-Dinitrophenol	<680		680	590	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
2,4-Dinitrotoluene	<170		170	54	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
2,6-Dinitrotoluene	<170		170	66	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
2-Chloronaphthalene	<170		170	37	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
2-Chlorophenol	<170		170	57	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
2-Methylnaphthalene	<68		68	6.2	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
2-Methylphenol	<170		170	54	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
2-Nitroaniline	<170		170	45	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
2-Nitrophenol	<330		330	80	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
3 & 4 Methylphenol	<170		170	56	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
3,3'-Dichlorobenzidine	<170		170	47	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
3-Nitroaniline	<330		330	100	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
4,6-Dinitro-2-methylphenol	<680		680	270	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
4-Bromophenyl phenyl ether	<170		170	44	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
4-Chloro-3-methylphenol	<330		330	110	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
4-Chloroaniline	<680		680	160	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
4-Chlorophenyl phenyl ether	<170		170	39	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
4-Nitroaniline	<330		330	140	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
4-Nitrophenol	<680		680	320	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Acenaphthene	<33		33	6.1	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Acenaphthylene	<33		33	4.4	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Anthracene	<33		33	5.6	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Benzo[a]anthracene	<33		33	4.5	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Benzo[a]pyrene	<33		33	6.5	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Benzo[b]fluoranthene	<33		33	7.3	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Benzo[g,h,i]perylene	<33		33	11	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Benzo[k]fluoranthene	<33		33	9.9	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Bis(2-chloroethoxy)methane	<170		170	34	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Bis(2-chloroethyl)ether	<170		170	50	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Bis(2-ethylhexyl) phthalate	<170		170	62	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Butyl benzyl phthalate	<170		170	64	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Carbazole	<170		170	84	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Chrysene	<33		33	9.2	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Dibenz(a,h)anthracene	<33		33	6.5	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Dibenzofuran	<170		170	39	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Diethyl phthalate	<170		170	57	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Dimethyl phthalate	<170		170	44	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Di-n-butyl phthalate	<170		170	51	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Di-n-octyl phthalate	<170		170	55	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Fluoranthene	**7.2**	**J**	33	6.2	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Fluorene	<33		33	4.7	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Hexachlorobenzene	<68		68	7.8	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Hexachlorobutadiene	<170		170	53	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Hexachlorocyclopentadiene	<680		680	190	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Hexachloroethane	<170		170	51	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1

Client Sample ID: A15-18(0-1)-020717
Date Collected: 02/07/17 12:15
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-14
Matrix: Solid
Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<33		33	8.7	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Isophorone	<170		170	38	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Naphthalene	<33		33	5.2	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Nitrobenzene	<33		33	8.4	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
N-Nitrosodi-n-propylamine	<68		68	41	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Pentachlorophenol	<680		680	540	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Phenanthrene	<33		33	4.7	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Phenol	<170		170	75	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1
Pyrene	**6.8**	**J**	33	6.7	ug/Kg	☼	02/09/17 19:45	02/10/17 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*51*		*25 - 130*	*02/09/17 19:45*	*02/10/17 11:52*	*1*
2-Fluorobiphenyl	*82*		*42 - 115*	*02/09/17 19:45*	*02/10/17 11:52*	*1*
2-Fluorophenol	*77*		*40 - 130*	*02/09/17 19:45*	*02/10/17 11:52*	*1*
Nitrobenzene-d5	*75*		*33 - 124*	*02/09/17 19:45*	*02/10/17 11:52*	*1*
Phenol-d5	*77*		*36 - 123*	*02/09/17 19:45*	*02/10/17 11:52*	*1*
Terphenyl-d14	*86*		*25 - 150*	*02/09/17 19:45*	*02/10/17 11:52*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/17 09:10	02/10/17 23:15	1
Barium	**0.057**	**J**	0.50	0.050	mg/L		02/10/17 09:10	02/10/17 23:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 09:10	02/10/17 23:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 09:10	02/10/17 23:15	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:15	1
Cobalt	**0.028**		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:15	1
Copper	**0.012**	**J**	0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:15	1
Iron	<0.40		0.40	0.20	mg/L		02/10/17 09:10	02/10/17 23:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/17 09:10	02/10/17 23:15	1
Manganese	**0.40**		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:15	1
Nickel	**0.013**	**J**	0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:15	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 09:10	02/10/17 23:15	1
Silver	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:15	1
Zinc	<0.50		0.50	0.020	mg/L		02/10/17 09:10	02/10/17 23:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/11/17 09:08	02/13/17 12:19	1
Barium	<0.50		0.50	0.050	mg/L		02/11/17 09:08	02/13/17 12:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/17 09:08	02/13/17 12:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/17 09:08	02/13/17 12:19	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:19	1
Cobalt	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:19	1
Copper	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:19	1
Iron	<0.40		0.40	0.20	mg/L		02/11/17 09:08	02/13/17 12:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/17 09:08	02/13/17 12:19	1
Manganese	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:19	1
Nickel	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:19	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/17 09:08	02/13/17 12:19	1

Client Sample ID: A15-18(0-1)-020717
Date Collected: 02/07/17 12:15
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-14
Matrix: Solid
Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:19	1
Zinc	<0.50		0.50	0.020	mg/L		02/11/17 09:08	02/13/17 12:19	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.1	0.22	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Arsenic	4.1		0.53	0.24	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Barium	4.2		0.53	0.097	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Beryllium	0.096	J	0.21	0.046	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Cadmium	0.10	J	0.11	0.031	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Calcium	260000	B	110	34	mg/Kg	☼	02/09/17 08:38	02/11/17 22:12	10
Chromium	1.8		0.53	0.091	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Cobalt	3.9		0.26	0.060	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Copper	2.3		0.53	0.11	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Iron	3000		11	4.1	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Lead	4.8	B	0.26	0.13	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Magnesium	160000	B	53	21	mg/Kg	☼	02/09/17 08:38	02/11/17 22:12	10
Manganese	130		0.53	0.10	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Nickel	7.0		0.53	0.14	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Potassium	690		26	4.3	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Sodium	380		53	7.0	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Vanadium	2.4		0.26	0.077	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1
Zinc	5.5		1.1	0.33	mg/Kg	☼	02/09/17 08:38	02/11/17 07:43	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/10/17 13:00	02/13/17 11:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/10/17 13:00	02/13/17 10:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<16		16	8.5	ug/Kg	☼	02/08/17 15:45	02/09/17 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5		0.2	0.2	SU			02/11/17 10:42	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123557-1

Client Sample ID: A15-19(0-1)-020717
Date Collected: 02/07/17 12:45
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-15
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<18		18	7.9	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Benzene	<1.8		1.8	0.46	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Bromoform	<1.8		1.8	0.53	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Bromomethane	<4.5		4.5	1.7	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Carbon disulfide	<4.5		4.5	0.94	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Carbon tetrachloride	<1.8		1.8	0.52	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Chlorobenzene	<1.8		1.8	0.67	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Chloroethane	<4.5		4.5	1.3	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Chloroform	<1.8		1.8	0.63	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Chloromethane	<4.5		4.5	1.8	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
cis-1,2-Dichloroethene	<1.8		1.8	0.50	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
cis-1,3-Dichloropropene	<1.8		1.8	0.54	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Dibromochloromethane	<1.8		1.8	0.59	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
1,1-Dichloroethane	<1.8		1.8	0.62	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
1,2-Dichloroethane	<4.5		4.5	1.4	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
1,1-Dichloroethene	<1.8		1.8	0.62	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
1,2-Dichloropropane	<1.8		1.8	0.47	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
1,3-Dichloropropene, Total	<1.8		1.8	0.63	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Ethylbenzene	<1.8		1.8	0.86	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
2-Hexanone	<4.5		4.5	1.4	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Methylene Chloride	<4.5		4.5	1.8	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Methyl Ethyl Ketone	<4.5		4.5	2.0	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
methyl isobutyl ketone	<4.5		4.5	1.3	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Methyl tert-butyl ether	<1.8		1.8	0.53	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Styrene	<1.8		1.8	0.55	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.58	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Tetrachloroethene	<1.8		1.8	0.61	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
trans-1,2-Dichloroethene	<1.8		1.8	0.80	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
trans-1,3-Dichloropropene	<1.8		1.8	0.63	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
1,1,1-Trichloroethane	<1.8		1.8	0.61	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
1,1,2-Trichloroethane	<1.8		1.8	0.77	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Trichloroethene	<1.8		1.8	0.61	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Vinyl chloride	<1.8		1.8	0.80	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1
Xylenes, Total	<3.6		3.6	0.58	ug/Kg	☼	02/08/17 09:20	02/09/17 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 120*	*02/08/17 09:20*	*02/09/17 17:51*	*1*
Dibromofluoromethane	*99*		*75 - 120*	*02/08/17 09:20*	*02/09/17 17:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*69 - 134*	*02/08/17 09:20*	*02/09/17 17:51*	*1*
Toluene-d8 (Surr)	*106*		*75 - 123*	*02/08/17 09:20*	*02/09/17 17:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1

Client Sample ID: A15-19(0-1)-020717
Date Collected: 02/07/17 12:45
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-15
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
2-Methylnaphthalene	<78		78	7.1	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
2-Methylphenol	<190		190	62	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Acenaphthene	**58**		38	6.9	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Acenaphthylene	**13**	**J**	38	5.1	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Anthracene	**80**		38	6.4	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Benzo[a]anthracene	**290**		38	5.2	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Benzo[a]pyrene	**230**	*	38	7.5	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Benzo[b]fluoranthene	**360**	*	38	8.3	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Benzo[g,h,i]perylene	**67**	*	38	12	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Benzo[k]fluoranthene	**170**	*	38	11	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Carbazole	<190		190	96	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Chrysene	**290**		38	11	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Dibenz(a,h)anthracene	<38	*	38	7.5	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Dibenzofuran	<190		190	45	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Fluoranthene	**740**		38	7.2	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Fluorene	**27**	**J**	38	5.4	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Hexachloroethane	<190		190	59	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1

Client Sample ID: A15-19(0-1)-020717
Date Collected: 02/07/17 12:45
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-15
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**64**	*	38	10	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Isophorone	<190		190	43	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Naphthalene	<38		38	5.9	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Phenanthrene	**370**		38	5.4	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Phenol	<190		190	86	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1
Pyrene	**920**		38	7.7	ug/Kg	☼	02/09/17 19:45	02/10/17 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*66*		*25 - 130*	*02/09/17 19:45*	*02/10/17 14:07*	*1*
2-Fluorobiphenyl	*76*		*42 - 115*	*02/09/17 19:45*	*02/10/17 14:07*	*1*
2-Fluorophenol	*73*		*40 - 130*	*02/09/17 19:45*	*02/10/17 14:07*	*1*
Nitrobenzene-d5	*68*		*33 - 124*	*02/09/17 19:45*	*02/10/17 14:07*	*1*
Phenol-d5	*76*		*36 - 123*	*02/09/17 19:45*	*02/10/17 14:07*	*1*
Terphenyl-d14	*125*		*25 - 150*	*02/09/17 19:45*	*02/10/17 14:07*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/17 09:10	02/10/17 23:21	1
Barium	**0.25**	**J**	0.50	0.050	mg/L		02/10/17 09:10	02/10/17 23:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 09:10	02/10/17 23:21	1
Cadmium	**0.0020**	**J**	0.0050	0.0020	mg/L		02/10/17 09:10	02/10/17 23:21	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:21	1
Cobalt	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:21	1
Copper	**0.015**	**J**	0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:21	1
Iron	<0.40		0.40	0.20	mg/L		02/10/17 09:10	02/10/17 23:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/17 09:10	02/10/17 23:21	1
Manganese	**2.2**		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:21	1
Nickel	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:21	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 09:10	02/10/17 23:21	1
Silver	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/10/17 23:21	1
Zinc	**0.054**	**J**	0.50	0.020	mg/L		02/10/17 09:10	02/10/17 23:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.091**		0.050	0.010	mg/L		02/11/17 09:08	02/13/17 12:22	1
Barium	**0.70**		0.50	0.050	mg/L		02/11/17 09:08	02/13/17 12:22	1
Beryllium	**0.011**		0.0040	0.0040	mg/L		02/11/17 09:08	02/13/17 12:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/17 09:08	02/13/17 12:22	1
Chromium	**0.24**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:22	1
Cobalt	**0.099**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:22	1
Copper	**0.30**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:22	1
Iron	**260**		0.40	0.20	mg/L		02/11/17 09:08	02/13/17 12:22	1
Lead	**0.72**		0.0075	0.0075	mg/L		02/11/17 09:08	02/13/17 12:22	1
Manganese	**1.8**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:22	1
Nickel	**0.31**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:22	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/17 09:08	02/13/17 12:22	1

Client Sample ID: A15-19(0-1)-020717
Date Collected: 02/07/17 12:45
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-15
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:22	1
Zinc	**0.93**		0.50	0.020	mg/L		02/11/17 09:08	02/13/17 12:22	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.26**	**J**	1.2	0.24	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Arsenic	**3.7**		0.58	0.27	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Barium	**51**		0.58	0.11	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Beryllium	**0.44**		0.23	0.050	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Cadmium	**0.56**		0.12	0.034	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Calcium	**130000**	**B**	120	37	mg/Kg	☼	02/09/17 08:38	02/11/17 22:18	10
Chromium	**19**		0.58	0.10	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Cobalt	**5.9**		0.29	0.066	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Copper	**27**		0.58	0.13	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Iron	**12000**		12	4.5	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Lead	**220**	**B**	0.29	0.14	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Magnesium	**54000**	**B**	5.8	2.4	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Manganese	**290**		0.58	0.12	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Nickel	**16**		0.58	0.16	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Potassium	**1200**		29	4.7	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Sodium	**2100**		58	7.7	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Vanadium	**12**		0.29	0.085	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1
Zinc	**130**		1.2	0.37	mg/Kg	☼	02/09/17 08:38	02/11/17 07:49	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/10/17 13:00	02/13/17 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/10/17 13:00	02/13/17 10:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**21**		20	11	ug/Kg	☼	02/08/17 15:45	02/09/17 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.8**		0.2	0.2	SU			02/11/17 10:47	1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
E	Result exceeded calibration range.

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.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
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)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123557-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6[illegible]
Phone: 708.534.5200 Fax: 708.53[illegible]

500-123557 COC

Chain of Custody Record

Lab Job #: 500-123557

Chain of Custody Number:

Page 1 of 5

Temperature °C of Cooler: 37, 29, 32, 41, 26

Report To (optional)	Bill To (optional)
Contact: S. Babasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address:
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston Solutions		
Project Name: IDOT 053		Parameter
Project Location/State: Beecher / IL	Lab Project #	
Sampler: A. Tuchaste	Lab PM: Dick Wright	

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH	Comments
1		A13-2(0-1)-020717	2/7/17	0850	6	S	X	X	X	X	X	
2		A13-2(0-1)-020717D		0850	6	S						
3		A9-16(0-1)-020717		0920	6	S						
4		A15-9(0-1)-020717		0935	6	S						
5		A15-10(0-1)-020717		0958	6	S						
6		A15-11(0-1)-020717		1000	6	S						
7		A15-12(0-1)-020717		1020	6	S						
8		A15-13(0-1)-020717		1035	6	S						
9		A15-14(0-1)-020717		1045	6	S						
10		A15-15(0-1)-020717	2/7/17	1057	6	S	X	X	X	X	X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/7/17	1650	[signature]	TALL	02/07/17	1656
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company: S
Address:
Address: A
Phone: M
Fax: E
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123557
Chain of Custody Number:
Page 2 of 5
Temperature °C of Cooler:

Client	Client Project #
Weston Solutions	
Project Name: I DOT 053	
Project Location/State: Beecher / IL	Lab Project #
Sampler: B. Tuckash	Lab PM: Dirk Wright

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH	Comments
11		A15-16(0-1)-020717	2/7/17	1115	6	S		X	X	X	X	X	
12		A15-17(0-1)-020717		1145	6	S							
13		A15-17(0-1)-020717D		1145	6	S							
14		A15-18(0-1)-020717		1215	6	S							
15		A15-19(0-1)-020717		1245	6	S							
16		A15-20(0-1)-020717		1256	6	S							
17		R21-1(0-1)-020717		1316	6	S							
18		R21-2(0-1)-020717		1340	6	S							
19		D22-1(0-1)-020717		1355	6	S							
20		D22-2(0-1)-020717	2/7/17	1410	6	S		X	X	X	X	X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/7/17	1656	[signature]	TMH	02/07/17	1656
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

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 332: IL Route 1 (Dixie Highway) Office Phone Number, if available: _____

Physical Site Location (address, incldduding number and street):
2900 block of S. Dixie Highway, (ISGS Site No. 3140-19)

City: Beecher State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.361774443 (Decimal Degrees) Longitude: -87.621497562 (-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

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

Project Name: FAP 332: IL Route 1 (Dixie Highway)

Latitude: 41.361774443 Longitude: -87.621497562

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 VL19-1, VL19-2, AND VL19-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 3140-19. SEE FIGURES 3-6/3-7 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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 - JOB ID: 500-123502-1.
ALSO SEE FIGURES 4-6 AND 4-7 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, Michael Castillo, 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: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

Michael Castillo, P.G.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

29 March 2017
Date:

LICENSED PROFESSIONAL GEOLOGIST
MICHAEL A. CASTILLO
196.001276
ILLINOIS

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

Summary Table of ISGS Site No. 3140-19
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	VL19-1(0-1)-020617	VL19-2(0-1)-020617	VL19-3(0-1)-020617	Soil Reference Concentrations[A]
Sample Date	2/6/2017	2/6/2017	2/6/2017	
Location ID	VL19-1	VL19-2	VL19-3	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-19	3140-19	3140-19	
Parameter				
Laboratory pH (s.u.)	8.8	8.4	8.4	<6.25, >9.0
VOCs	None Detected			
SVOCs (ug/kg)				
2-Methylnaphthalene	ND	14 J	ND	---
Anthracene	17 J	7.7 J	ND	1.2E+07
Benzo(a)anthracene	61	20 J	21 J	900 / 1100 / 1800
Benzo(a)pyrene	63 J	32 J	24 J	90 / 1300 / 2100
Benzo(b)fluoranthene	100 J	64 J	38 J	900 / 1500 /2100
Benzo(g,h,i)perylene	26 J	19 J	48 J	---
Benzo(k)fluoranthene	39 J	24 J	23 J	9000
bis(2-Ethylhexyl)phthalate	93 J	83 J	96 J	46000
Chrysene	67	40 *	27 J	88000
Fluoranthene	130	69	27 J	3100000
Indeno(1,2,3-cd)pyrene	23 J	12 J	23 J	900 / 900 / 1600
Pyrene	170	95 J	83 J	2300000
Total Metals (mg/kg)				
Antimony, Total	0.52 J	ND	0.47 J	5
Arsenic, Total	7	5.7	5.7	11.3 / 13.0
Barium, Total	52	81	9.6	1500
Beryllium, Total	0.47	0.68	0.16 J	22
Cadmium, Total	0.25	0.34	0.14	5.2
Calcium, Total	98000 B	12000 B	210000 B	---
Chromium, Total	11 B	16 B	3.4 B	21
Cobalt, Total	8.8	8.3	3.7	20
Copper, Total	16	19	5.5	2900
Iron, Total	11000 B	15000 B	6400 B	15000 / 15900
Lead, Total	70	63	27	107
Magnesium, Total	41000 B	8300 B	130000 B	325000
Manganese, Total	300 B	340 B	140 B	630 / 636
Mercury, Total	0.036	0.033	ND	0.89
Nickel, Total	20	22	9.8	100
Potassium, Total	990	1500	540	---
Selenium, Total	ND	0.42 J	ND	1.3
Silver, Total	ND	ND	ND	4.4
Sodium, Total	610	840	490	---
Thallium, Total	ND	ND	ND	2.6
Vanadium, Total	13	18	5	550
Zinc, Total	74	94	20	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.48 J	0.37 J	0.15 J	2
Cadmium, TCLP	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	0.021 J	1
Copper, TCLP	ND	ND	0.037	0.65
Iron, TCLP	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	0.18	0.25	0.79	0.15
Nickel, TCLP	ND	ND	0.027	0.1
Selenium, TCLP	ND	ND	ND	0.05
Zinc, TCLP	0.062 J	0.046 J	0.034 J	5

Summary Table of ISGS Site No. 3140-19
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	VL19-1(0-1)-020617	VL19-2(0-1)-020617	VL19-3(0-1)-020617	Soil Reference Concentrations[A]
Sample Date	2/6/2017	2/6/2017	2/6/2017	
Location ID	VL19-1	VL19-2	VL19-3	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-19	3140-19	3140-19	
Parameter				
SPLP Metals (mg/l)				
Arsenic, SPLP	0.041 J	0.027 J	ND	0.05
Barium, SPLP	0.52	0.54	ND	2
Beryllium, SPLP	0.0053	0.005	ND	0.004
Cadmium, SPLP	ND	0.0021 J	ND	0.005
Chromium, SPLP	0.13	0.13	ND	0.1
Cobalt, SPLP	0.031	0.027	ND	1
Copper, SPLP	0.12	0.11	ND	0.65
Iron, SPLP	120	120	3.5 J	5
Lead, SPLP	0.26	0.15	0.01	0.0075
Manganese, SPLP	0.67	0.68	0.017 J	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.14	0.11	ND	0.1
Zinc, SPLP	0.55	0.53	0.022 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for MSA counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

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: 500-123502-1
Client Project/Site: IDOT - Illinois Route 1 - WO 053

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
2/14/2017 4:32:30 PM

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

Client Sample ID: VL19-1(0-1)-020617
Date Collected: 02/06/17 11:20
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-7
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<17		17	7.4	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Benzene	<1.7		1.7	0.43	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Bromoform	<1.7		1.7	0.50	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Bromomethane	<4.2		4.2	1.6	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Carbon disulfide	<4.2		4.2	0.88	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Carbon tetrachloride	<1.7		1.7	0.49	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Chlorobenzene	<1.7		1.7	0.63	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Chloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Chloroform	<1.7		1.7	0.59	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Chloromethane	<4.2		4.2	1.7	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
cis-1,2-Dichloroethene	<1.7		1.7	0.47	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
cis-1,3-Dichloropropene	<1.7		1.7	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Dibromochloromethane	<1.7		1.7	0.55	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
1,1-Dichloroethane	<1.7		1.7	0.58	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
1,2-Dichloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
1,1-Dichloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
1,2-Dichloropropane	<1.7		1.7	0.44	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
1,3-Dichloropropene, Total	<1.7		1.7	0.60	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Ethylbenzene	<1.7		1.7	0.81	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
2-Hexanone	<4.2		4.2	1.3	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Methylene Chloride	<4.2		4.2	1.7	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Methyl Ethyl Ketone	<4.2		4.2	1.9	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
methyl isobutyl ketone	<4.2		4.2	1.3	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Methyl tert-butyl ether	<1.7		1.7	0.50	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Styrene	<1.7		1.7	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.54	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Tetrachloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Toluene	<1.7		1.7	0.43	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
trans-1,2-Dichloroethene	<1.7		1.7	0.75	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
trans-1,3-Dichloropropene	<1.7		1.7	0.60	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
1,1,1-Trichloroethane	<1.7		1.7	0.57	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
1,1,2-Trichloroethane	<1.7		1.7	0.73	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Trichloroethene	<1.7		1.7	0.57	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Vinyl chloride	<1.7		1.7	0.75	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1
Xylenes, Total	<3.4		3.4	0.54	ug/Kg	☼	02/07/17 08:45	02/08/17 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 120*	*02/07/17 08:45*	*02/08/17 14:52*	*1*
Dibromofluoromethane	*106*		*75 - 120*	*02/07/17 08:45*	*02/08/17 14:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*69 - 134*	*02/07/17 08:45*	*02/08/17 14:52*	*1*
Toluene-d8 (Surr)	*100*		*75 - 123*	*02/07/17 08:45*	*02/08/17 14:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1

Client Sample ID: VL19-1(0-1)-020617
Date Collected: 02/06/17 11:20
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-7
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	88	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
2,4-Dinitrotoluene	<190		190	62	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
2-Methylnaphthalene	<78		78	7.1	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
2-Methylphenol	<190		190	62	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
3 & 4 Methylphenol	<190		190	65	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Anthracene	**17**	**J**	39	6.5	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Benzo[a]anthracene	**61**		39	5.2	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Benzo[a]pyrene	**63**	*	39	7.5	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Benzo[b]fluoranthene	**100**	*	39	8.4	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Benzo[g,h,i]perylene	**26**	**J ***	39	12	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Benzo[k]fluoranthene	**39**	*	39	11	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Bis(2-chloroethoxy)methane	<190		190	40	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Bis(2-ethylhexyl) phthalate	**93**	**J**	190	71	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Carbazole	<190		190	97	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Chrysene	**67**		39	11	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Dibenz(a,h)anthracene	<39	*	39	7.5	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Dibenzofuran	<190		190	45	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Fluoranthene	**130**		39	7.2	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Fluorene	<39		39	5.5	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Hexachloroethane	<190		190	59	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1

Client Sample ID: VL19-1(0-1)-020617
Date Collected: 02/06/17 11:20
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-7
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**23**	**J ***	39	10	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Isophorone	<190		190	44	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Naphthalene	<39		39	6.0	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Phenanthrene	**74**		39	5.4	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Phenol	<190		190	86	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1
Pyrene	**170**		39	7.7	ug/Kg	☼	02/08/17 16:43	02/13/17 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*69*		*25 - 130*	*02/08/17 16:43*	*02/13/17 14:37*	*1*
2-Fluorobiphenyl	*74*		*42 - 115*	*02/08/17 16:43*	*02/13/17 14:37*	*1*
2-Fluorophenol	*68*		*40 - 130*	*02/08/17 16:43*	*02/13/17 14:37*	*1*
Nitrobenzene-d5	*64*		*33 - 124*	*02/08/17 16:43*	*02/13/17 14:37*	*1*
Phenol-d5	*74*		*36 - 123*	*02/08/17 16:43*	*02/13/17 14:37*	*1*
Terphenyl-d14	*129*		*25 - 150*	*02/08/17 16:43*	*02/13/17 14:37*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/17 08:17	02/10/17 17:11	1
Barium	**0.48**	**J**	0.50	0.050	mg/L		02/10/17 08:17	02/10/17 17:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 08:17	02/10/17 17:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 08:17	02/10/17 17:11	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:11	1
Cobalt	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:11	1
Copper	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:11	1
Iron	<0.40		0.40	0.20	mg/L		02/10/17 08:17	02/10/17 17:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/17 08:17	02/10/17 17:11	1
Manganese	**0.18**		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:11	1
Nickel	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:11	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 08:17	02/10/17 17:11	1
Silver	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:11	1
Zinc	**0.062**	**J**	0.50	0.020	mg/L		02/10/17 08:17	02/10/17 17:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.041**	**J**	0.050	0.010	mg/L		02/10/17 08:18	02/11/17 17:18	1
Barium	**0.52**		0.50	0.050	mg/L		02/10/17 08:18	02/11/17 17:18	1
Beryllium	**0.0053**		0.0040	0.0040	mg/L		02/10/17 08:18	02/11/17 17:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 08:18	02/11/17 17:18	1
Chromium	**0.13**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:18	1
Cobalt	**0.031**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:18	1
Copper	**0.12**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:18	1
Iron	**120**		0.40	0.20	mg/L		02/10/17 08:18	02/11/17 17:18	1
Lead	**0.26**		0.0075	0.0075	mg/L		02/10/17 08:18	02/11/17 17:18	1
Manganese	**0.67**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:18	1
Nickel	**0.14**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:18	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 08:18	02/11/17 17:18	1

Client Sample ID: VL19-1(0-1)-020617
Date Collected: 02/06/17 11:20
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-7
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:18	1
Zinc	**0.55**		0.50	0.020	mg/L		02/10/17 08:18	02/11/17 17:18	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.52**	**J**	1.2	0.24	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Arsenic	**7.0**		0.59	0.27	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Barium	**52**		0.59	0.11	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Beryllium	**0.47**		0.23	0.051	mg/Kg	☼	02/08/17 15:05	02/10/17 13:09	1
Cadmium	**0.25**		0.12	0.034	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Calcium	**98000**	**B**	120	38	mg/Kg	☼	02/08/17 15:05	02/10/17 02:07	10
Chromium	**11**	**B**	0.59	0.10	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Cobalt	**8.8**		0.29	0.066	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Copper	**16**		0.59	0.13	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Iron	**11000**	**B**	12	4.5	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Lead	**70**		0.29	0.15	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Magnesium	**41000**	**B**	5.9	2.4	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Manganese	**300**	**B**	0.59	0.12	mg/Kg	☼	02/08/17 15:05	02/10/17 13:09	1
Nickel	**20**		0.59	0.16	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Potassium	**990**		29	4.8	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Sodium	**610**		59	7.7	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Vanadium	**13**		0.29	0.086	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1
Zinc	**74**		1.2	0.37	mg/Kg	☼	02/08/17 15:05	02/09/17 23:45	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/09/17 13:45	02/10/17 11:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/09/17 13:45	02/10/17 12:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**36**		18	9.5	ug/Kg	☼	02/07/17 14:30	02/08/17 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.8**		0.2	0.2	SU			02/08/17 16:51	1

Client Sample ID: VL19-2(0-1)-020617
Date Collected: 02/06/17 11:35
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-8
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	<18		18	7.9	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Benzene	<1.8		1.8	0.46	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Bromoform	<1.8		1.8	0.53	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Bromomethane	<4.5		4.5	1.7	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Carbon disulfide	<4.5		4.5	0.94	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Carbon tetrachloride	<1.8		1.8	0.52	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Chlorobenzene	<1.8		1.8	0.67	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Chloroethane	<4.5		4.5	1.3	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Chloroform	<1.8		1.8	0.63	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Chloromethane	<4.5		4.5	1.8	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
cis-1,2-Dichloroethene	<1.8		1.8	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
cis-1,3-Dichloropropene	<1.8		1.8	0.55	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Dibromochloromethane	<1.8		1.8	0.59	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
1,1-Dichloroethane	<1.8		1.8	0.62	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
1,2-Dichloroethane	<4.5		4.5	1.4	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
1,1-Dichloroethene	<1.8		1.8	0.62	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
1,2-Dichloropropane	<1.8		1.8	0.47	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
1,3-Dichloropropene, Total	<1.8		1.8	0.63	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Ethylbenzene	<1.8		1.8	0.87	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
2-Hexanone	<4.5		4.5	1.4	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Methylene Chloride	<4.5		4.5	1.8	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Methyl Ethyl Ketone	<4.5		4.5	2.0	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
methyl isobutyl ketone	<4.5		4.5	1.3	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Methyl tert-butyl ether	<1.8		1.8	0.53	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Styrene	<1.8		1.8	0.55	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.58	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Tetrachloroethene	<1.8		1.8	0.62	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
trans-1,2-Dichloroethene	<1.8		1.8	0.80	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
trans-1,3-Dichloropropene	<1.8		1.8	0.63	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
1,1,1-Trichloroethane	<1.8		1.8	0.61	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
1,1,2-Trichloroethane	<1.8		1.8	0.78	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Trichloroethene	<1.8		1.8	0.61	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Vinyl chloride	<1.8		1.8	0.80	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1
Xylenes, Total	<3.6		3.6	0.58	ug/Kg	☼	02/07/17 08:45	02/08/17 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*	*02/07/17 08:45*	*02/08/17 15:18*	*1*
Dibromofluoromethane	*101*		*75 - 120*	*02/07/17 08:45*	*02/08/17 15:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*69 - 134*	*02/07/17 08:45*	*02/08/17 15:18*	*1*
Toluene-d8 (Surr)	*102*		*75 - 123*	*02/07/17 08:45*	*02/08/17 15:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1

Client Sample ID: VL19-2(0-1)-020617
Date Collected: 02/06/17 11:35
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-8
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
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
2-Methylnaphthalene	**14**	**J**	81	7.4	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
2-Methylphenol	<200		200	65	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
3,3'-Dichlorobenzidine	<200	*	200	56	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
4,6-Dinitro-2-methylphenol	<810		810	320	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Anthracene	**7.7**	**J**	40	6.7	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Benzo[a]anthracene	**20**	**J ***	40	5.4	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Benzo[a]pyrene	**32**	**J ***	40	7.8	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Benzo[b]fluoranthene	**64**	*****	40	8.7	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Benzo[g,h,i]perylene	**19**	**J ***	40	13	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Benzo[k]fluoranthene	**24**	**J ***	40	12	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Bis(2-ethylhexyl) phthalate	**83**	**J ***	200	74	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Butyl benzyl phthalate	<200	*	200	77	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Carbazole	<200		200	100	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Chrysene	**40**	*****	40	11	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Dibenz(a,h)anthracene	<40	*	40	7.8	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Dibenzofuran	<200		200	47	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Fluoranthene	**69**		40	7.5	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Fluorene	<40		40	5.7	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Hexachloroethane	<200		200	61	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1

Client Sample ID: VL19-2(0-1)-020617
Date Collected: 02/06/17 11:35
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-8
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
Indeno[1,2,3-cd]pyrene	**12**	**J ***	40	10	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Isophorone	<200		200	45	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Naphthalene	<40		40	6.2	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Nitrobenzene	<40		40	10	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
N-Nitrosodi-n-propylamine	<81		81	49	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Pentachlorophenol	<810		810	650	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Phenanthrene	**38**	**J**	40	5.6	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Phenol	<200		200	89	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1
Pyrene	**95**	*****	40	8.0	ug/Kg	☼	02/08/17 16:43	02/13/17 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*25 - 130*	*02/08/17 16:43*	*02/13/17 15:04*	*1*
2-Fluorobiphenyl	*71*		*42 - 115*	*02/08/17 16:43*	*02/13/17 15:04*	*1*
2-Fluorophenol	*61*		*40 - 130*	*02/08/17 16:43*	*02/13/17 15:04*	*1*
Nitrobenzene-d5	*58*		*33 - 124*	*02/08/17 16:43*	*02/13/17 15:04*	*1*
Phenol-d5	*68*		*36 - 123*	*02/08/17 16:43*	*02/13/17 15:04*	*1*
Terphenyl-d14	*140*	*	*25 - 150*	*02/08/17 16:43*	*02/13/17 15:04*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/17 08:17	02/10/17 17:16	1
Barium	**0.37**	**J**	0.50	0.050	mg/L		02/10/17 08:17	02/10/17 17:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 08:17	02/10/17 17:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 08:17	02/10/17 17:16	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:16	1
Cobalt	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:16	1
Copper	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:16	1
Iron	<0.40		0.40	0.20	mg/L		02/10/17 08:17	02/10/17 17:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/17 08:17	02/10/17 17:16	1
Manganese	**0.25**		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:16	1
Nickel	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 08:17	02/10/17 17:16	1
Silver	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:16	1
Zinc	**0.046**	**J**	0.50	0.020	mg/L		02/10/17 08:17	02/10/17 17:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.027**	**J**	0.050	0.010	mg/L		02/10/17 08:18	02/11/17 17:21	1
Barium	**0.54**		0.50	0.050	mg/L		02/10/17 08:18	02/11/17 17:21	1
Beryllium	**0.0050**		0.0040	0.0040	mg/L		02/10/17 08:18	02/11/17 17:21	1
Cadmium	**0.0021**	**J**	0.0050	0.0020	mg/L		02/10/17 08:18	02/11/17 17:21	1
Chromium	**0.13**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:21	1
Cobalt	**0.027**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:21	1
Copper	**0.11**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:21	1
Iron	**120**		0.40	0.20	mg/L		02/10/17 08:18	02/11/17 17:21	1
Lead	**0.15**		0.0075	0.0075	mg/L		02/10/17 08:18	02/11/17 17:21	1
Manganese	**0.68**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:21	1
Nickel	**0.11**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:21	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 08:18	02/11/17 17:21	1

Client Sample ID: VL19-2(0-1)-020617
Date Collected: 02/06/17 11:35
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-8
Matrix: Solid
Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:21	1
Zinc	**0.53**		0.50	0.020	mg/L		02/10/17 08:18	02/11/17 17:21	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Arsenic	**5.7**		0.60	0.28	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Barium	**81**		0.60	0.11	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Beryllium	**0.68**		0.24	0.052	mg/Kg	☼	02/08/17 15:05	02/10/17 13:14	1
Cadmium	**0.34**		0.12	0.035	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Calcium	**12000**	**B**	12	3.9	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Chromium	**16**	**B**	0.60	0.10	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Cobalt	**8.3**		0.30	0.068	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Copper	**19**		0.60	0.13	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Iron	**15000**	**B**	12	4.7	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Lead	**63**		0.30	0.15	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Magnesium	**8300**	**B**	6.0	2.5	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Manganese	**340**	**B**	0.60	0.12	mg/Kg	☼	02/08/17 15:05	02/10/17 13:14	1
Nickel	**22**		0.60	0.16	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Potassium	**1500**		30	4.9	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Selenium	**0.42**	**J**	0.60	0.30	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Sodium	**840**		60	8.0	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Vanadium	**18**		0.30	0.088	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1
Zinc	**94**		1.2	0.38	mg/Kg	☼	02/08/17 15:05	02/09/17 23:51	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/09/17 13:45	02/10/17 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/09/17 13:45	02/10/17 12:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**33**		19	10	ug/Kg	☼	02/07/17 14:30	02/08/17 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.4**		0.2	0.2	SU			02/08/17 16:54	1

Client Sample ID: VL19-3(0-1)-020617
Date Collected: 02/06/17 11:45
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-9
Matrix: Solid
Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<15		15	6.4	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Benzene	<1.5		1.5	0.37	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Bromodichloromethane	<1.5		1.5	0.30	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Bromoform	<1.5		1.5	0.43	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Bromomethane	<3.7		3.7	1.4	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Carbon disulfide	<3.7		3.7	0.76	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Carbon tetrachloride	<1.5		1.5	0.43	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Chlorobenzene	<1.5		1.5	0.54	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Chloroethane	<3.7		3.7	1.1	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Chloroform	<1.5		1.5	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Chloromethane	<3.7		3.7	1.5	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
cis-1,2-Dichloroethene	<1.5		1.5	0.41	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
cis-1,3-Dichloropropene	<1.5		1.5	0.44	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Dibromochloromethane	<1.5		1.5	0.48	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
1,1-Dichloroethane	<1.5		1.5	0.50	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
1,2-Dichloroethane	<3.7		3.7	1.1	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
1,1-Dichloroethene	<1.5		1.5	0.50	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
1,2-Dichloropropane	<1.5		1.5	0.38	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
1,3-Dichloropropene, Total	<1.5		1.5	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Ethylbenzene	<1.5		1.5	0.70	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
2-Hexanone	<3.7		3.7	1.1	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Methylene Chloride	<3.7		3.7	1.4	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Methyl Ethyl Ketone	<3.7		3.7	1.6	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
methyl isobutyl ketone	<3.7		3.7	1.1	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Methyl tert-butyl ether	<1.5		1.5	0.43	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Styrene	<1.5		1.5	0.44	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
1,1,2,2-Tetrachloroethane	<1.5		1.5	0.47	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Tetrachloroethene	<1.5		1.5	0.50	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Toluene	<1.5		1.5	0.37	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
trans-1,2-Dichloroethene	<1.5		1.5	0.65	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
trans-1,3-Dichloropropene	<1.5		1.5	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
1,1,1-Trichloroethane	<1.5		1.5	0.49	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
1,1,2-Trichloroethane	<1.5		1.5	0.63	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Trichloroethene	<1.5		1.5	0.50	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Vinyl chloride	<1.5		1.5	0.65	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1
Xylenes, Total	<2.9		2.9	0.47	ug/Kg	☼	02/07/17 08:45	02/08/17 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 120*	*02/07/17 08:45*	*02/08/17 15:43*	*1*
Dibromofluoromethane	*105*		*75 - 120*	*02/07/17 08:45*	*02/08/17 15:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*69 - 134*	*02/07/17 08:45*	*02/08/17 15:43*	*1*
Toluene-d8 (Surr)	*100*		*75 - 123*	*02/07/17 08:45*	*02/08/17 15:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
1,3-Dichlorobenzene	<170		170	38	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
1,4-Dichlorobenzene	<170		170	43	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
2,2'-oxybis[1-chloropropane]	<170		170	39	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1

Client Sample ID: VL19-3(0-1)-020617
Date Collected: 02/06/17 11:45
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-9
Matrix: Solid
Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	77	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
2,4-Dichlorophenol	<340		340	81	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
2,4-Dinitrophenol	<680		680	600	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
2,4-Dinitrotoluene	<170		170	54	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
2,6-Dinitrotoluene	<170		170	67	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
2-Chloronaphthalene	<170		170	37	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
2-Chlorophenol	<170		170	58	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
2-Methylnaphthalene	<68		68	6.2	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
2-Methylphenol	<170		170	54	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
2-Nitrophenol	<340		340	80	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
3,3'-Dichlorobenzidine	<170	*	170	47	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
4,6-Dinitro-2-methylphenol	<680		680	270	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
4-Bromophenyl phenyl ether	<170		170	45	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
4-Chloroaniline	<680		680	160	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
4-Nitrophenol	<680		680	320	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Acenaphthene	<34		34	6.1	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Acenaphthylene	<34		34	4.5	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Anthracene	<34		34	5.7	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Benzo[a]anthracene	**21**	**J ***	34	4.6	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Benzo[a]pyrene	**24**	**J ***	34	6.6	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Benzo[b]fluoranthene	**38**	*	34	7.3	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Benzo[g,h,i]perylene	**48**	*	34	11	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Benzo[k]fluoranthene	**23**	**J ***	34	10	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Bis(2-ethylhexyl) phthalate	**96**	**J ***	170	62	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Butyl benzyl phthalate	<170	*	170	65	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Carbazole	<170		170	85	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Chrysene	**27**	**J ***	34	9.2	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Dibenz(a,h)anthracene	<34	*	34	6.6	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Dibenzofuran	<170		170	40	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Diethyl phthalate	<170		170	57	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Dimethyl phthalate	<170		170	44	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Di-n-butyl phthalate	<170		170	52	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Di-n-octyl phthalate	<170		170	55	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Fluoranthene	**27**	**J**	34	6.3	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Fluorene	<34		34	4.8	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Hexachlorobenzene	<68		68	7.9	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Hexachlorobutadiene	<170		170	53	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Hexachlorocyclopentadiene	<680		680	190	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Hexachloroethane	<170		170	52	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1

Client Sample ID: VL19-3(0-1)-020617
Date Collected: 02/06/17 11:45
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-9
Matrix: Solid
Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**23**	**J ***	34	8.8	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Isophorone	<170		170	38	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Naphthalene	<34		34	5.2	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Nitrobenzene	<34		34	8.5	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
N-Nitrosodi-n-propylamine	<68		68	41	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Pentachlorophenol	<680		680	540	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Phenanthrene	**21**	**J**	34	4.7	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Phenol	<170		170	75	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1
Pyrene	**83**	*****	34	6.7	ug/Kg	☼	02/08/17 16:43	02/13/17 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*56*		*25 - 130*	*02/08/17 16:43*	*02/13/17 21:50*	*1*
2-Fluorobiphenyl	*81*		*42 - 115*	*02/08/17 16:43*	*02/13/17 21:50*	*1*
2-Fluorophenol	*64*		*40 - 130*	*02/08/17 16:43*	*02/13/17 21:50*	*1*
Nitrobenzene-d5	*61*		*33 - 124*	*02/08/17 16:43*	*02/13/17 21:50*	*1*
Phenol-d5	*67*		*36 - 123*	*02/08/17 16:43*	*02/13/17 21:50*	*1*
Terphenyl-d14	*160*	*X **	*25 - 150*	*02/08/17 16:43*	*02/13/17 21:50*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/17 08:17	02/10/17 17:33	1
Barium	**0.15**	**J**	0.50	0.050	mg/L		02/10/17 08:17	02/10/17 17:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 08:17	02/10/17 17:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 08:17	02/10/17 17:33	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:33	1
Cobalt	**0.021**	**J**	0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:33	1
Copper	**0.037**		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:33	1
Iron	<0.40		0.40	0.20	mg/L		02/10/17 08:17	02/10/17 17:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/17 08:17	02/10/17 17:33	1
Manganese	**0.79**		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:33	1
Nickel	**0.027**		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:33	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 08:17	02/10/17 17:33	1
Silver	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:33	1
Zinc	**0.034**	**J**	0.50	0.020	mg/L		02/10/17 08:17	02/10/17 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/17 08:18	02/11/17 17:32	1
Barium	<0.50		0.50	0.050	mg/L		02/10/17 08:18	02/11/17 17:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 08:18	02/11/17 17:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 08:18	02/11/17 17:32	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:32	1
Cobalt	<0.025		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:32	1
Copper	<0.025		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:32	1
Iron	**3.5**	**F1**	0.40	0.20	mg/L		02/10/17 08:18	02/11/17 17:32	1
Lead	**0.010**		0.0075	0.0075	mg/L		02/10/17 08:18	02/11/17 17:32	1
Manganese	**0.017**	**J**	0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:32	1
Nickel	<0.025		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:32	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 08:18	02/11/17 17:32	1

Client Sample ID: VL19-3(0-1)-020617
Date Collected: 02/06/17 11:45
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-9
Matrix: Solid
Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:32	1
Zinc	**0.022**	**J**	0.50	0.020	mg/L		02/10/17 08:18	02/11/17 17:32	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.47**	**J**	1.0	0.21	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1
Arsenic	**5.7**		0.51	0.24	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1
Barium	**9.6**		0.51	0.093	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1
Beryllium	**0.16**	**J**	0.20	0.044	mg/Kg	☼	02/08/17 15:05	02/10/17 13:20	1
Cadmium	**0.14**		0.10	0.030	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1
Calcium	**210000**	**B**	100	33	mg/Kg	☼	02/08/17 15:05	02/10/17 02:14	10
Chromium	**3.4**	**B**	0.51	0.088	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1
Cobalt	**3.7**		0.26	0.058	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1
Copper	**5.5**		0.51	0.11	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1
Iron	**6400**	**B**	10	3.9	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1
Lead	**27**		0.26	0.13	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1
Magnesium	**130000**	**B**	51	21	mg/Kg	☼	02/08/17 15:05	02/10/17 02:14	10
Manganese	**140**	**B**	0.51	0.10	mg/Kg	☼	02/08/17 15:05	02/10/17 13:20	1
Nickel	**9.8**		0.51	0.14	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1
Potassium	**540**		26	4.2	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1
Sodium	**490**		51	6.7	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1
Vanadium	**5.0**		0.26	0.075	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1
Zinc	**20**		1.0	0.32	mg/Kg	☼	02/08/17 15:05	02/09/17 23:56	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/09/17 13:45	02/10/17 11:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/09/17 13:45	02/10/17 12:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<16		16	8.4	ug/Kg	☼	02/07/17 14:30	02/08/17 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.4**		0.2	0.2	SU			02/08/17 16:57	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123502-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
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.
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.

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)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123502-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6(
Phone: 708.534.5200 Fax: 708.53

500-123502 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Lindenhurst, IL 60046
Phone:
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123502

Chain of Custody Number:

Page 4 of 6

Temperature °C of Cooler: 3.1, 2.6, 4.3, 2.9, 3.5 2/2/17

Client: Weston
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher / IL
Lab Project #:
Sampler: JB
Lab PM: Dick Waylett

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	Parameter: SVOC	Parameter: Total metals	Parameter: TCLP / SPLP Metals	Parameter: pH	Comments
1		A23-1(0-1)-020617	2/6/17	10:25	6	SO		X	X	X	X	X	
2		A15-1(0-1)-020617		10:40									
3		A15-2(0-1)-020617		10:48									
4		A15-3(0-1)-020617		10:55									
5		A15-4(0-1)-020617		11:00									
6		F20-1(0-1)-020617		11:10									
7		VL19-1(0-1)-020617		11:20									
8		VL19-2(0-1)-020617		11:35									
9		VL19-3(0-1)-020617		1145									
10		A15-5(0-1)-020617		12:00				X	X	X	X	X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/6/17	1710	[signature]	TA	2/6/17	1710
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: SS 2/7/17 TA
Shipped:
Hand Delivered: X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

2/14/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-123502

Chain of Custody Number:

Page 5 of 6

Temperature °C of Cooler:

Report To (optional)	Bill To (optional)
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company: S
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address: A
Phone:	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston Solutions		
Project Name		Parameter
IDOT 053		
Project Location/State	Lab Project #	
Beedmee / IL		
Sampler	Lab PM	
JB	Dirk Wright	

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals 13	TCLP SPLP Metals	PH					Comments
11		A15-5(0-1)-020617D	2/6/17	12:00	6	SO	X	X	X	X	X					
12		A15-6(0-1)-020617		12:10												
13		R18-1(0-1)-020617		12:20												
14		F17-1(0-1)-020617		12:30												
15		A15-7(0-1)-020617		12:45												
16		A15-8(0-1)-020617		13:00												
17		FK-1(0-1)-020617		13:10												
18		A9-1(0-1)-020617		13:20												
19		A13-1(0-1)-020617		13:30												
20		A11-1(0-1)-020617		13:40			X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	2/6/17	1710		TA	2/6/17	1710
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Ctr, Ste 201
Address: Mundelein, IL 60060
Phone: 224-836-4250
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123502
Chain of Custody Number:
Page 6 of 6
Temperature °C of Cooler:

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beedsville IL
Lab Project #:
Sampler: JB
Lab PM:

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP Metals SPLP Metals	PH					Comments
21		A9-2(0-1)-020617	2/6/17	14:00	6	SO	X	X	X	X	X					
22		A9-2(0-1)-020617D		14:00			X	X	X	X	X					
23		A9-3(0-1)-020617		14:10			X	X	X	X	X					
24		F10-1(0-1)-020617		14:30			X	X	X	X	X					

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	2/6/17	1710		TA	2/6/17	1710

Lab Courier
Shipped
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500(1209)

2/14/2017

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 332: IL Route 1 (Dixie Highway) Office Phone Number, if available: _____

Physical Site Location (address, incldduding number and street):
29145 S. Dixie Highway, (ISGS Site No. 3140-20)

City: Beecher State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.361138901 (Decimal Degrees) Longitude: -87.621478624 (-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 332: IL Route 1 (Dixie Highway)

Latitude: 41.361138901 Longitude: -87.621478624

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 F20-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 3140-20. SEE FIGURE 3-6 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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 - JOB ID: 500-123502-1.
ALSO SEE FIGURE 4-6 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, Michael Castillo, 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: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

Michael Castillo, P.G.
Printed Name:

Michael A Castillo
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

29 March 2017
Date:

LICENSED PROFESSIONAL GEOLOGIST
MICHAEL A. CASTILLO
196.001276
ILLINOIS

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

Summary Table of ISGS Site No. 3140-20
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	F20-1(0-1)-020617	**Soil Reference Concentrations[A]**
Sample Date	2/6/2017	
Location ID	F20-1	
Depth	0 - 1	
ISGS Site No.	3140-20	
Parameter		
Laboratory pH (s.u.)	8.2	<6.25, >9.0
VOCs	None Detected	
SVOCs (ug/kg)		
2-Methylnaphthalene	8.2 J	---
Benzo(a)anthracene	30 J	900 / 1100 / 1800
Benzo(a)pyrene	40 J	90 / 1300 / 2100
Benzo(b)fluoranthene	72 J	900 / 1500 /2100
Benzo(g,h,i)perylene	20 J	---
Benzo(k)fluoranthene	21 J	9000
Chrysene	40	88000
Fluoranthene	67	3100000
Indeno(1,2,3-cd)pyrene	15 J	900 / 900 / 1600
Phenanthrene	36 J	
Pyrene	88	2300000
Total Metals (mg/kg)		
Antimony, Total	ND	5
Arsenic, Total	5.8	11.3 / 13.0
Barium, Total	48	1500
Beryllium, Total	0.69	22
Cadmium, Total	0.24	5.2
Calcium, Total	53000 B	---
Chromium, Total	17 B	21
Cobalt, Total	11	20
Copper, Total	20	2900
Iron, Total	17000 B	15000 / 15900
Lead, Total	30	107
Magnesium, Total	18000 B	325000
Manganese, Total	340 B	630 / 636
Mercury, Total	0.024	0.89
Nickel, Total	30	100
Potassium, Total	1800	---
Selenium, Total	ND	1.3
Silver, Total	ND	4.4
Sodium, Total	590	---
Thallium, Total	ND	2.6
Vanadium, Total	17	550
Zinc, Total	81	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.37 J	2
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.034	0.15
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Zinc, TCLP	ND	5

Summary Table of ISGS Site No. 3140-20
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	F20-1(0-1)-020617	**Soil Reference Concentrations[A]**
Sample Date	2/6/2017	
Location ID	F20-1	
Depth	0 - 1	
ISGS Site No.	3140-20	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.074	0.05
Barium, SPLP	0.48 J	2
Beryllium, SPLP	0.0071	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.15	0.1
Cobalt, SPLP	0.045	1
Copper, SPLP	0.18	0.65
Iron, SPLP	160	5
Lead, SPLP	0.2	0.0075
Manganese, SPLP	0.76	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.18	0.1
Zinc, SPLP	0.5	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for MSA counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

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: 500-123502-1
Client Project/Site: IDOT - Illinois Route 1 - WO 053

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
2/14/2017 4:32:30 PM

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

Client Sample ID: F20-1(0-1)-020617
Date Collected: 02/06/17 11:10
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-6
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	<18		18	7.7	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Benzene	<1.8		1.8	0.45	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Bromodichloromethane	<1.8		1.8	0.36	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Bromoform	<1.8		1.8	0.52	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Bromomethane	<4.4		4.4	1.7	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Carbon disulfide	<4.4		4.4	0.92	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Carbon tetrachloride	<1.8		1.8	0.51	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Chlorobenzene	<1.8		1.8	0.65	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Chloroethane	<4.4		4.4	1.3	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Chloroform	<1.8		1.8	0.61	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Chloromethane	<4.4		4.4	1.8	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
cis-1,2-Dichloroethene	<1.8		1.8	0.49	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
cis-1,3-Dichloropropene	<1.8		1.8	0.53	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Dibromochloromethane	<1.8		1.8	0.58	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
1,1-Dichloroethane	<1.8		1.8	0.60	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
1,2-Dichloroethane	<4.4		4.4	1.4	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
1,1-Dichloroethene	<1.8		1.8	0.61	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
1,2-Dichloropropane	<1.8		1.8	0.46	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
1,3-Dichloropropene, Total	<1.8		1.8	0.62	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Ethylbenzene	<1.8		1.8	0.85	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
2-Hexanone	<4.4		4.4	1.4	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Methylene Chloride	<4.4		4.4	1.7	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Methyl Ethyl Ketone	<4.4		4.4	2.0	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
methyl isobutyl ketone	<4.4		4.4	1.3	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Methyl tert-butyl ether	<1.8		1.8	0.52	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Styrene	<1.8		1.8	0.53	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.56	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Tetrachloroethene	<1.8		1.8	0.60	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Toluene	<1.8		1.8	0.45	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
trans-1,2-Dichloroethene	<1.8		1.8	0.78	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
trans-1,3-Dichloropropene	<1.8		1.8	0.62	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
1,1,1-Trichloroethane	<1.8		1.8	0.59	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
1,1,2-Trichloroethane	<1.8		1.8	0.76	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Trichloroethene	<1.8		1.8	0.60	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Vinyl chloride	<1.8		1.8	0.78	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1
Xylenes, Total	<3.5		3.5	0.57	ug/Kg	☼	02/07/17 08:45	02/08/17 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*	*02/07/17 08:45*	*02/08/17 14:27*	*1*
Dibromofluoromethane	*104*		*75 - 120*	*02/07/17 08:45*	*02/08/17 14:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*69 - 134*	*02/07/17 08:45*	*02/08/17 14:27*	*1*
Toluene-d8 (Surr)	*100*		*75 - 123*	*02/07/17 08:45*	*02/08/17 14:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1

Client Sample ID: F20-1(0-1)-020617
Date Collected: 02/06/17 11:10
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-6
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
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
2-Methylnaphthalene	**8.2**	**J**	79	7.2	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
2-Methylphenol	<200		200	63	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Anthracene	<39		39	6.5	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Benzo[a]anthracene	**30**	**J**	39	5.3	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Benzo[a]pyrene	**40**	*****	39	7.6	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Benzo[b]fluoranthene	**72**	*****	39	8.4	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Benzo[g,h,i]perylene	**20**	**J ***	39	13	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Benzo[k]fluoranthene	**21**	**J ***	39	12	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Carbazole	<200		200	98	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Chrysene	**40**		39	11	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Dibenz(a,h)anthracene	<39	*	39	7.6	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Dibenzofuran	<200		200	46	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Fluoranthene	**67**		39	7.2	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Fluorene	<39		39	5.5	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Hexachloroethane	<200		200	59	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1

Client Sample ID: F20-1(0-1)-020617
Date Collected: 02/06/17 11:10
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-6
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
Indeno[1,2,3-cd]pyrene	**15**	**J ***	39	10	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Isophorone	<200		200	44	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Naphthalene	<39		39	6.0	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Phenanthrene	**36**	**J**	39	5.4	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Phenol	<200		200	87	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1
Pyrene	**88**		39	7.8	ug/Kg	☼	02/08/17 16:43	02/13/17 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*67*		*25 - 130*	*02/08/17 16:43*	*02/13/17 14:10*	*1*
2-Fluorobiphenyl	*77*		*42 - 115*	*02/08/17 16:43*	*02/13/17 14:10*	*1*
2-Fluorophenol	*67*		*40 - 130*	*02/08/17 16:43*	*02/13/17 14:10*	*1*
Nitrobenzene-d5	*65*		*33 - 124*	*02/08/17 16:43*	*02/13/17 14:10*	*1*
Phenol-d5	*70*		*36 - 123*	*02/08/17 16:43*	*02/13/17 14:10*	*1*
Terphenyl-d14	*123*		*25 - 150*	*02/08/17 16:43*	*02/13/17 14:10*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/17 08:17	02/10/17 17:04	1
Barium	**0.37**	**J**	0.50	0.050	mg/L		02/10/17 08:17	02/10/17 17:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 08:17	02/10/17 17:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 08:17	02/10/17 17:04	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:04	1
Cobalt	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:04	1
Copper	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:04	1
Iron	<0.40		0.40	0.20	mg/L		02/10/17 08:17	02/10/17 17:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/17 08:17	02/10/17 17:04	1
Manganese	**0.034**		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:04	1
Nickel	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:04	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 08:17	02/10/17 17:04	1
Silver	<0.025		0.025	0.010	mg/L		02/10/17 08:17	02/10/17 17:04	1
Zinc	<0.50		0.50	0.020	mg/L		02/10/17 08:17	02/10/17 17:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.074**		0.050	0.010	mg/L		02/10/17 08:18	02/11/17 17:14	1
Barium	**0.48**	**J**	0.50	0.050	mg/L		02/10/17 08:18	02/11/17 17:14	1
Beryllium	**0.0071**		0.0040	0.0040	mg/L		02/10/17 08:18	02/11/17 17:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 08:18	02/11/17 17:14	1
Chromium	**0.15**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:14	1
Cobalt	**0.045**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:14	1
Copper	**0.18**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:14	1
Iron	**160**		0.40	0.20	mg/L		02/10/17 08:18	02/11/17 17:14	1
Lead	**0.20**		0.0075	0.0075	mg/L		02/10/17 08:18	02/11/17 17:14	1
Manganese	**0.76**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:14	1
Nickel	**0.18**		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:14	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 08:18	02/11/17 17:14	1

Client Sample ID: F20-1(0-1)-020617
Date Collected: 02/06/17 11:10
Date Received: 02/06/17 17:10

Lab Sample ID: 500-123502-6
Matrix: Solid
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/10/17 08:18	02/11/17 17:14	1
Zinc	**0.50**		0.50	0.020	mg/L		02/10/17 08:18	02/11/17 17:14	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Arsenic	**5.8**		0.60	0.28	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Barium	**48**		0.60	0.11	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Beryllium	**0.69**		0.24	0.052	mg/Kg	☼	02/08/17 15:05	02/10/17 13:04	1
Cadmium	**0.24**		0.12	0.035	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Calcium	**53000**	**B**	120	39	mg/Kg	☼	02/08/17 15:05	02/10/17 01:57	10
Chromium	**17**	**B**	0.60	0.10	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Cobalt	**11**		0.30	0.068	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Copper	**20**		0.60	0.13	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Iron	**17000**	**B**	12	4.6	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Lead	**30**		0.30	0.15	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Magnesium	**18000**	**B**	6.0	2.4	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Manganese	**340**	**B**	0.60	0.12	mg/Kg	☼	02/08/17 15:05	02/10/17 13:04	1
Nickel	**30**		0.60	0.16	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Potassium	**1800**		30	4.9	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Sodium	**590**		60	7.9	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Vanadium	**17**		0.30	0.088	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1
Zinc	**81**		1.2	0.38	mg/Kg	☼	02/08/17 15:05	02/09/17 23:40	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/09/17 13:45	02/10/17 11:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/09/17 13:45	02/10/17 12:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**24**		18	9.6	ug/Kg	☼	02/07/17 14:30	02/08/17 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**		0.2	0.2	SU			02/08/17 16:48	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123502-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
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.
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.

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)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123502-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6(
Phone: 708.534.5200 Fax: 708.53

500-123502 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Lindenhurst, IL 60046
Phone:
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123502

Chain of Custody Number:

Page 4 of 6

Temperature °C of Cooler: 3.1, 2.6, 4.3, 2.9, 3.5 2/2/17

Client: Weston
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher / IL
Lab Project #:
Sampler: JB
Lab PM: Dick Waylett

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	Parameter: SVOC	Parameter: Total metals	Parameter: TCLP / SPLP Metals	Parameter: pH	Comments
1		A23-1(0-1)-020617	2/6/17	10:25	6	SO		X	X	X	X	X	
2		A15-1(0-1)-020617		10:40									
3		A15-2(0-1)-020617		10:48									
4		A15-3(0-1)-020617		10:55									
5		A15-4(0-1)-020617		11:00									
6		F20-1(0-1)-020617		11:10									
7		VL19-1(0-1)-020617		11:20									
8		VL19-2(0-1)-020617		11:35									
9		VL19-3(0-1)-020617		1145									
10		A15-5(0-1)-020617		12:00				X	X	X	X	X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/6/17	1710	[signature]	TA	2/6/17	1710
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: SS 2/7/17 TA
Shipped:
Hand Delivered: X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

2/14/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-123502

Chain of Custody Number:

Page 5 of 6

Temperature °C of Cooler:

Report To (optional)	Bill To (optional)
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company: S
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address: A
Phone:	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston Solutions		
Project Name		Parameter
IDOT 053		
Project Location/State	Lab Project #	
Beedmee / IL		
Sampler	Lab PM	
JB	Dirk Wright	

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals 13	TCLP SPLP Metals	PH					Comments
11		A15-5(0-1)-020617D	2/6/17	12:00	6	SO	X	X	X	X	X					
12		A15-6(0-1)-020617		12:10												
13		R18-1(0-1)-020617		12:20												
14		F17-1(0-1)-020617		12:30												
15		A15-7(0-1)-020617		12:45												
16		A15-8(0-1)-020617		13:00												
17		FK-1(0-1)-020617		13:10												
18		A9-1(0-1)-020617		13:20												
19		A13-1(0-1)-020617		13:30												
20		A11-1(0-1)-020617		13:40			X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	2/6/17	1710		TA	2/6/17	1710
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Ctr, Ste 201
Address: Mundelein, IL 60060
Phone: 224-836-4250
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123502
Chain of Custody Number:
Page 6 of 6
Temperature °C of Cooler:

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beedsville IL
Lab Project #:
Sampler: JB
Lab PM:

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP Metals SPLP Metals	PH					Comments
21		A9-2(0-1)-020617	2/6/17	14:00	6	SO	X	X	X	X	X					
22		A9-2(0-1)-020617D		14:00			X	X	X	X	X					
23		A9-3(0-1)-020617		14:10			X	X	X	X	X					
24		F10-1(0-1)-020617		14:30			X	X	X	X	X					

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	2/6/17	1710		TA	2/6/17	1710

Lab Courier
Shipped
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500(1209)

2/14/2017

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 332: IL Route 1 (Dixie Highway) Office Phone Number, if available: _____

Physical Site Location (address, incldduding number and street):
29412 S. Dixie Highway, (ISGS Site No. 3140-22)

City: Beecher State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.357025742 (Decimal Degrees) Longitude: -87.621542685 (-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 332: IL Route 1 (Dixie Highway)

Latitude: 41.357025742 Longitude: -87.621542685

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 D22-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 3140-22. SEE FIGURE 3-6 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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 - JOB ID: 500-123557-1.
ALSO SEE FIGURE 4-6 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, Michael Castillo, 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: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

Michael Castillo, P.G.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

29 March 2017
Date:

LICENSED PROFESSIONAL GEOLOGIST
MICHAEL A. CASTILLO
196.001276
ILLINOIS

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

Summary Table of ISGS Site No. 3140-22
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	D22-2(0-1)-020717	**Soil Reference Concentrations[A]**
Sample Date	2/7/2017	
Location ID	D22-2	
Depth	0 - 1	
ISGS Site No.	3140-22	
Parameter		
Laboratory pH (s.u.)	8.4	<6.25, >9.0
VOCs	None Detected	
SVOCs (ug/kg)		
Acenaphthene	49	570000
Acenaphthylene	5.8 J	---
Anthracene	130	1.2E+07
Benzo(a)anthracene	920	900 / 1100 / 1800
Benzo(a)pyrene	970 J	90 / 1300 / 2100
Benzo(b)fluoranthene	1700 J	900 / 1500 /2100
Benzo(g,h,i)perylene	330 J	---
Benzo(k)fluoranthene	660 J	9000
Carbazole	110 J	600
Chrysene	990	88000
Dibenzo(a,h)anthracene	78 J	90 / 200 / 420
Fluoranthene	2300	3100000
Fluorene	43	560000
Indeno(1,2,3-cd)pyrene	320 J	900 / 900 / 1600
Phenanthrene	950	
Pyrene	2600	2300000
Total Metals (mg/kg)		
Antimony, Total	0.29 J	5
Arsenic, Total	2.5	11.3 / 13.0
Barium, Total	17	1500
Beryllium, Total	0.16 J	22
Cadmium, Total	0.21	5.2
Calcium, Total	210000 B	---
Chromium, Total	5	21
Cobalt, Total	2.5	20
Copper, Total	10	2900
Iron, Total	4800	15000 / 15900
Lead, Total	27 B	107
Magnesium, Total	130000 B	325000
Manganese, Total	150	630 / 636
Mercury, Total	0.011 J	0.89
Nickel, Total	6.6	100
Potassium, Total	590	---
Selenium, Total	ND	1.3
Silver, Total	ND	4.4
Sodium, Total	480	---
Thallium, Total	ND	2.6
Vanadium, Total	5.4	550
Zinc, Total	52	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.27 J	2
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.45	0.15
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Zinc, TCLP	0.065 J	5

Summary Table of ISGS Site No. 3140-22
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	D22-2(0-1)-020717	**Soil Reference Concentrations[A]**
Sample Date	2/7/2017	
Location ID	D22-2	
Depth	0 - 1	
ISGS Site No.	3140-22	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.047 J	0.05
Barium, SPLP	0.34 J	2
Beryllium, SPLP	0.005	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.12	0.1
Cobalt, SPLP	0.035	1
Copper, SPLP	0.15	0.65
Iron, SPLP	130 J+	5
Lead, SPLP	0.17	0.0075
Manganese, SPLP	1	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.13	0.1
Zinc, SPLP	0.39 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for MSA counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

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: 500-123557-1
Client Project/Site: IDOT - Illinois Route 1 - WO 053

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
2/15/2017 5:08:23 PM

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

Client Sample ID: D22-2(0-1)-020717
Date Collected: 02/07/17 14:10
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-20
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<20		20	8.5	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Benzene	<2.0		2.0	0.50	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Bromodichloromethane	<2.0		2.0	0.40	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Bromoform	<2.0		2.0	0.57	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Bromomethane	<4.9		4.9	1.8	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Carbon disulfide	<4.9		4.9	1.0	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Carbon tetrachloride	<2.0		2.0	0.57	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Chlorobenzene	<2.0		2.0	0.72	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Chloroethane	<4.9		4.9	1.4	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Chloroform	<2.0		2.0	0.68	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Chloromethane	<4.9		4.9	2.0	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
cis-1,2-Dichloroethene	<2.0		2.0	0.55	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
cis-1,3-Dichloropropene	<2.0		2.0	0.59	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Dibromochloromethane	<2.0		2.0	0.64	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
1,1-Dichloroethane	<2.0		2.0	0.67	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
1,2-Dichloroethane	<4.9		4.9	1.5	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
1,1-Dichloroethene	<2.0		2.0	0.67	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
1,2-Dichloropropane	<2.0		2.0	0.51	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
1,3-Dichloropropene, Total	<2.0		2.0	0.69	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Ethylbenzene	<2.0		2.0	0.94	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
2-Hexanone	<4.9		4.9	1.5	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Methylene Chloride	<4.9		4.9	1.9	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Methyl Ethyl Ketone	<4.9		4.9	2.2	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
methyl isobutyl ketone	<4.9		4.9	1.4	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Methyl tert-butyl ether	<2.0		2.0	0.57	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Styrene	<2.0		2.0	0.59	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.63	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Tetrachloroethene	<2.0		2.0	0.67	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Toluene	<2.0		2.0	0.49	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
trans-1,2-Dichloroethene	<2.0		2.0	0.87	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
trans-1,3-Dichloropropene	<2.0		2.0	0.69	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
1,1,1-Trichloroethane	<2.0		2.0	0.66	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
1,1,2-Trichloroethane	<2.0		2.0	0.84	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Trichloroethene	<2.0		2.0	0.66	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Vinyl chloride	<2.0		2.0	0.87	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1
Xylenes, Total	<3.9		3.9	0.63	ug/Kg	☼	02/08/17 09:20	02/09/17 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 120*	*02/08/17 09:20*	*02/09/17 19:53*	*1*
Dibromofluoromethane	*98*		*75 - 120*	*02/08/17 09:20*	*02/09/17 19:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*69 - 134*	*02/08/17 09:20*	*02/09/17 19:53*	*1*
Toluene-d8 (Surr)	*107*		*75 - 123*	*02/08/17 09:20*	*02/09/17 19:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1

Client Sample ID: D22-2(0-1)-020717
Date Collected: 02/07/17 14:10
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-20
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
2-Methylnaphthalene	<76		76	7.0	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
2-Methylphenol	<190		190	61	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Acenaphthene	**49**		38	6.8	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Acenaphthylene	**5.8**	**J**	38	5.0	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Anthracene	**130**		38	6.3	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Benzo[a]anthracene	**920**		38	5.1	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Benzo[a]pyrene	**970**	*****	38	7.3	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Benzo[b]fluoranthene	**1700**	*****	38	8.2	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Benzo[g,h,i]perylene	**330**	*****	38	12	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Benzo[k]fluoranthene	**660**	*****	38	11	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Carbazole	**110**	**J**	190	95	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Chrysene	**990**		38	10	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Dibenz(a,h)anthracene	**78**	*****	38	7.3	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Dibenzofuran	<190		190	44	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Fluoranthene	**2300**		38	7.0	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Fluorene	**43**		38	5.3	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Hexachloroethane	<190		190	58	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1

Client Sample ID: D22-2(0-1)-020717
Date Collected: 02/07/17 14:10
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-20
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**320**	*	38	9.8	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Isophorone	<190		190	43	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Naphthalene	<38		38	5.8	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Phenanthrene	**950**		38	5.3	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Phenol	<190		190	84	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1
Pyrene	**2600**		38	7.5	ug/Kg	☼	02/09/17 19:45	02/10/17 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*61*		*25 - 130*	*02/09/17 19:45*	*02/10/17 13:40*	*1*
2-Fluorobiphenyl	*65*		*42 - 115*	*02/09/17 19:45*	*02/10/17 13:40*	*1*
2-Fluorophenol	*63*		*40 - 130*	*02/09/17 19:45*	*02/10/17 13:40*	*1*
Nitrobenzene-d5	*60*		*33 - 124*	*02/09/17 19:45*	*02/10/17 13:40*	*1*
Phenol-d5	*65*		*36 - 123*	*02/09/17 19:45*	*02/10/17 13:40*	*1*
Terphenyl-d14	*109*		*25 - 150*	*02/09/17 19:45*	*02/10/17 13:40*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/10/17 09:10	02/11/17 00:02	1
Barium	**0.27**	**J**	0.50	0.050	mg/L		02/10/17 09:10	02/11/17 00:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/17 09:10	02/11/17 00:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/17 09:10	02/11/17 00:02	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/11/17 00:02	1
Cobalt	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/11/17 00:02	1
Copper	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/11/17 00:02	1
Iron	<0.40		0.40	0.20	mg/L		02/10/17 09:10	02/11/17 00:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/17 09:10	02/11/17 00:02	1
Manganese	**0.45**		0.025	0.010	mg/L		02/10/17 09:10	02/11/17 00:02	1
Nickel	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/11/17 00:02	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/17 09:10	02/11/17 00:02	1
Silver	<0.025		0.025	0.010	mg/L		02/10/17 09:10	02/11/17 00:02	1
Zinc	**0.065**	**J**	0.50	0.020	mg/L		02/10/17 09:10	02/11/17 00:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.047**	**J**	0.050	0.010	mg/L		02/11/17 09:08	02/13/17 12:53	1
Barium	**0.34**	**J**	0.50	0.050	mg/L		02/11/17 09:08	02/13/17 12:53	1
Beryllium	**0.0050**		0.0040	0.0040	mg/L		02/11/17 09:08	02/13/17 12:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/17 09:08	02/13/17 12:53	1
Chromium	**0.12**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:53	1
Cobalt	**0.035**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:53	1
Copper	**0.15**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:53	1
Iron	**130**		0.40	0.20	mg/L		02/11/17 09:08	02/13/17 12:53	1
Lead	**0.17**		0.0075	0.0075	mg/L		02/11/17 09:08	02/13/17 12:53	1
Manganese	**1.0**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:53	1
Nickel	**0.13**		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:53	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/17 09:08	02/13/17 12:53	1

Client Sample ID: D22-2(0-1)-020717
Date Collected: 02/07/17 14:10
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123557-20
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/11/17 09:08	02/13/17 12:53	1
Zinc	**0.39**	**J**	0.50	0.020	mg/L		02/11/17 09:08	02/13/17 12:53	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.29**	**J**	1.1	0.23	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Arsenic	**2.5**		0.56	0.26	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Barium	**17**		0.56	0.10	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Beryllium	**0.16**	**J**	0.22	0.049	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Cadmium	**0.21**		0.11	0.032	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Calcium	**210000**	**B**	110	36	mg/Kg	☼	02/09/17 08:38	02/11/17 22:35	10
Chromium	**5.0**		0.56	0.096	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Cobalt	**2.5**		0.28	0.063	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Copper	**10**		0.56	0.12	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Iron	**4800**		11	4.3	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Lead	**27**	**B**	0.28	0.14	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Magnesium	**130000**	**B**	56	23	mg/Kg	☼	02/09/17 08:38	02/11/17 22:35	10
Manganese	**150**		0.56	0.11	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Nickel	**6.6**		0.56	0.15	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Potassium	**590**		28	4.6	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Sodium	**480**		56	7.4	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Vanadium	**5.4**		0.28	0.082	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1
Zinc	**52**		1.1	0.35	mg/Kg	☼	02/09/17 08:38	02/11/17 08:20	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/10/17 13:00	02/13/17 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/10/17 13:00	02/13/17 10:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**11**	**J**	17	9.2	ug/Kg	☼	02/08/17 15:45	02/09/17 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.4**		0.2	0.2	SU			02/11/17 11:07	1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
E	Result exceeded calibration range.

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.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
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)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123557-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6[illegible]
Phone: 708.534.5200 Fax: 708.53[illegible]

500-123557 COC

Chain of Custody Record

Lab Job #: 500-123557

Chain of Custody Number:

Page 1 of 5

Temperature °C of Cooler: 37, 29, 32, 41, 26

Report To (optional)	Bill To (optional)
Contact: S. Babasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address:
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston Solutions		
Project Name: IDOT 053		Parameter
Project Location/State: Beecher / IL	Lab Project #	
Sampler: A. Tuchaste	Lab PM: Dick Wright	

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH	Comments
1		A13-2(0-1)-020717	2/7/17	0850	6	S	X	X	X	X	X	
2		A13-2(0-1)-020717D		0850	6	S						
3		A9-16(0-1)-020717		0920	6	S						
4		A15-9(0-1)-020717		0935	6	S						
5		A15-10(0-1)-020717		0958	6	S						
6		A15-11(0-1)-020717		1000	6	S						
7		A15-12(0-1)-020717		1020	6	S						
8		A15-13(0-1)-020717		1035	6	S						
9		A15-14(0-1)-020717		1045	6	S						
10		A15-15(0-1)-020717	2/7/17	1057	6	S	X	X	X	X	X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/7/17	1650	[signature]	TALL	02/07/17	1656
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company: S
Address:
Address: A
Phone: M
Fax: E
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123557
Chain of Custody Number:
Page 2 of 5
Temperature °C of Cooler:

Client	Client Project #
Weston Solutions	
Project Name: I DOT 053	
Project Location/State: Beecher / IL	Lab Project #
Sampler: B. Tuckash	Lab PM: Dirk Wright

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH	Comments
11		A15-16(0-1)-020717	2/7/17	1115	6	S		X	X	X	X	X	
12		A15-17(0-1)-020717		1145	6	S							
13		A15-17(0-1)-020717D		1145	6	S							
14		A15-18(0-1)-020717		1215	6	S							
15		A15-19(0-1)-020717		1245	6	S							
16		A15-20(0-1)-020717		1256	6	S							
17		R21-1(0-1)-020717		1316	6	S							
18		R21-2(0-1)-020717		1340	6	S							
19		D22-1(0-1)-020717		1355	6	S							
20		D22-2(0-1)-020717	2/7/17	1410	6	S		X	X	X	X	X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/7/17	1656	[signature]	TMH	02/07/17	1656
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

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 332: IL Route 1 (Dixie Highway) Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
30500-30900 S. Dixie Highway, (ISGS Site No. 3140-31)

City: Beecher State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.333363712 (Decimal Degrees) Longitude: -87.621374633 (-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

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

Project Name: FAP 332: IL Route 1 (Dixie Highway)

Latitude: 41.333363712 Longitude: -87.621374633

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 A31-2, A31-3, A31-14, A31-16, A31-17, AND A31-21 WERE SAMPLED ADJACENT TO ISGS SITE No. 3140-31. SEE FIGURES 3-4/3-5 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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 - JOB ID: 500-123757-1 AND 500-123758-1.
ALSO SEE FIGURES 4-4 AND 4-5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, Michael Castillo, 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: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

Michael Castillo, P.G.
Printed Name:

Michael A Castillo
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

29 March 2016
Date:

LICENSED PROFESSIONAL GEOLOGIST
MICHAEL A. CASTILLO
196.001276
ILLINOIS

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

Summary Table of ISGS Site No. 3140-31
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	A31-2(0-1)-021017	A31-3(0-1)-021017	A31-14(0-1)-021017	A31-16(0-1)-021017	A31-16(0-1)-021017D	A31-17(0-1)-021017	A31-21(0-1)-021017	**Soil Reference Concentrations[A]**
Sample Date	2/10/2017	2/10/2017	2/10/2017	2/10/2017	2/10/2017	2/10/2017	2/10/2017	
Location ID	A31-2	A31-3	A31-14	A31-16	A31-16	A31-17	A31-21	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-31	3140-31	3140-31	3140-31	3140-31	3140-31	3140-31	
Parameter								
Laboratory pH (s.u.)	7.8	8.1	8.3	8.6	8.6	8.7	8.4	<6.25, >9.0
VOCs	None Detected							
SVOCs (ug/kg)								
2-Methylnaphthalene	24 J	ND	ND	24 J	19 J	21 J	ND	---
Acenaphthene	ND	ND	13 J	41	38	ND	17 J	570000
Acenaphthylene	ND	ND	5.3 J	20 J	21 J	ND	ND	---
Anthracene	9.9 J	ND	29 J	120	100	11 J	37	1.2E+07
Benzo(a)anthracene	55 J	9.5 J	140	540 J	490 J	55 J	140 J	900 / 1100 / 1800
Benzo(a)pyrene	54 J	17 J	150 J	620 J	590 J	55 J	140 J	90 / 1300 / 2100
Benzo(b)fluoranthene	110 J	25 J	210 J	950 J	1000 J	83 J	170 J	900 / 1500 /2100
Benzo(g,h,i)perylene	52 J	ND	96 J	390 J	340 J	16 J	64 J	---
Benzo(k)fluoranthene	30 J	ND	200 J	530 J	330 J	45 J	120 J	9000
bis(2-Ethylhexyl)phthalate	ND	ND	93 J	210 J	170 J	ND	ND	46000
Butyl benzyl phthalate	ND	ND	ND	ND	100 J	ND	ND	930000
Chrysene	73 J	14 J	170	670 J	630 J	63 J	160 J	88000
Dibenzo(a,h)anthracene	ND	ND	ND	61 J	45 J	ND	19 J	90 / 200 / 420
Fluoranthene	87	22 J	310	1100	850	86	260	3100000
Fluorene	ND	ND	12 J	43	35 J	ND	14 J	560000
Indeno(1,2,3-cd)pyrene	27 J	ND	74 J	310 J	280 J	20 J	41 J	900 / 900 / 1600
Naphthalene, SVOC	13 J	ND	5.8 J	26 J	24 J	11 J	ND	1800
Phenanthrene	77	16 J	150	580	480	92	170	
Pyrene	180 J	22 J	360	1700 J	1600 J	140 J	430 J	2300000

Summary Table of ISGS Site No. 3140-31
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	A31-2(0-1)-021017	A31-3(0-1)-021017	A31-14(0-1)-021017	A31-16(0-1)-021017	A31-16(0-1)-021017D	A31-17(0-1)-021017	A31-21(0-1)-021017	Soil Reference Concentrations[A]
Sample Date	2/10/2017	2/10/2017	2/10/2017	2/10/2017	2/10/2017	2/10/2017	2/10/2017	
Location ID	A31-2	A31-3	A31-14	A31-16	A31-16	A31-17	A31-21	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-31	3140-31	3140-31	3140-31	3140-31	3140-31	3140-31	
Parameter								
Total Metals (mg/kg)								
Antimony, Total	ND	ND	ND	0.34 J	0.31 J	ND	ND	5
Arsenic, Total	6.6	6.6	5.3	1.7	2.7	5.7	2.4	11.3 / 13.0
Barium, Total	81	46	55	9 J	41 J	72	24	1500
Beryllium, Total	0.66	0.54	0.64	0.083 J	0.23	0.66	0.18 J	22
Cadmium, Total	0.43	0.21	0.37	0.19 J	0.62 J	0.3	0.3	5.2
Calcium, Total	17000	26000	25000 B	340000 J	190000 J	23000 B	240000 B	---
Chromium, Total	14	14	21	4.4 J	19 J	15	6.5	21
Cobalt, Total	10	12	11	1.4 J	3.4 J	9.1	2.4	20
Copper, Total	21	16	26	8.8 J	41 J	21	13	2900
Iron, Total	17000	16000	16000 B	2100 J	8200 J	17000 B	6600 B	15000 / 15900
Lead, Total	75	81	81 B	15 J	140 J	53 B	67 B	107
Magnesium, Total	12000 B	18000 B	18000 B	200000 B	120000 B	15000 B	150000 B	325000
Manganese, Total	430	470	360	140 J	260 J	370	170	630 / 636
Mercury, Total	0.044	0.033	0.032	0.048	0.049	0.12	0.027	0.89
Nickel, Total	23	20	27	3.8 J	11 J	24	7.3	100
Potassium, Total	1200	1000	1600	260 J	530 J	1600	500	---
Selenium, Total	0.61	0.62	0.42 J	ND	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	ND	ND	4.4
Sodium, Total	1900	1900	1600	400 J	760 J	590	290	---
Thallium, Total	ND	ND	ND	ND	ND	ND	ND	2.6
Vanadium, Total	19	17	18	2.1 J	8.2 J	19	4.6	550
Zinc, Total	110	60	100 B	32 J	190 J	100 B	71 B	5100
TCLP Metals (mg/l)								
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.41 J	0.28 J	0.33 J	0.35 J	0.35 J	0.39 J	0.25 J	2
Cadmium, TCLP	0.002 J	0.0022 J	ND	0.0027 J	0.0031 J	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	ND	ND	ND	ND	1
Copper, TCLP	ND	0.013 J	ND	0.019 J	0.013 J	ND	0.015 J	0.65
Iron, TCLP	ND	ND	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.89	0.63	0.43	0.69	0.45	0.27	0.048	0.15
Nickel, TCLP	ND	0.011 J	ND	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	0.071 J	0.041 J	0.079 J	0.34 J	0.34 J	0.13 J	0.08 J	5

Summary Table of ISGS Site No. 3140-31
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
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Beecher, Will County, Illinois

Field Sample ID	A31-2(0-1)-021017	A31-3(0-1)-021017	A31-14(0-1)-021017	A31-16(0-1)-021017	A31-16(0-1)-021017D	A31-17(0-1)-021017	A31-21(0-1)-021017	**Soil Reference Concentrations[A]**
Sample Date	2/10/2017	2/10/2017	2/10/2017	2/10/2017	2/10/2017	2/10/2017	2/10/2017	
Location ID	A31-2	A31-3	A31-14	A31-16	A31-16	A31-17	A31-21	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-31	3140-31	3140-31	3140-31	3140-31	3140-31	3140-31	
Parameter								
SPLP Metals (mg/l)								
Arsenic, SPLP	0.053	0.065	0.028 J	ND	ND	0.044 J	ND	0.05
Barium, SPLP	0.69	0.51	0.47 J	0.067 J	ND	0.55	ND	2
Beryllium, SPLP	0.0067	0.0078	0.005	ND	ND	0.0058	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.17	0.19	0.13	0.026	0.02 J	0.15	0.01 J	0.1
Cobalt, SPLP	0.039	0.061	0.027	ND	ND	0.038	ND	1
Copper, SPLP	0.18	0.2	0.13	0.049	0.027	0.16	0.017 J	0.65
Iron, SPLP	160	180	100	8.4 J	5 J	140	5.9	5
Lead, SPLP	0.25	0.44	0.24	0.1	0.069	0.32	0.064	0.0075
Manganese, SPLP	0.67	1.2	0.51	0.13	0.085	0.92	0.058	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.17	0.2	0.11	0.01 J	ND	0.14	ND	0.1
Zinc, SPLP	0.85	0.64	0.49 J	0.26 J	0.16 J	0.91	0.064 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for MSA counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

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: 500-123757-1
Client Project/Site: IDOT - Illinois Route 1 - WO 053

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
2/21/2017 4:09:28 PM

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

Client Sample ID: A31-2(0-1)-021017
Date Collected: 02/10/17 11:10
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123757-11
Matrix: Solid
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<19		19	8.4	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Benzene	<1.9		1.9	0.49	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Bromodichloromethane	<1.9		1.9	0.39	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Bromoform	<1.9		1.9	0.56	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Bromomethane	<4.8		4.8	1.8	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Carbon disulfide	<4.8		4.8	1.0	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Carbon tetrachloride	<1.9		1.9	0.56	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Chlorobenzene	<1.9		1.9	0.71	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Chloroethane	<4.8		4.8	1.4	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Chloroform	<1.9		1.9	0.67	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Chloromethane	<4.8		4.8	1.9	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
cis-1,2-Dichloroethene	<1.9		1.9	0.54	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
cis-1,3-Dichloropropene	<1.9		1.9	0.58	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Dibromochloromethane	<1.9		1.9	0.63	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
1,1-Dichloroethane	<1.9		1.9	0.66	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
1,2-Dichloroethane	<4.8		4.8	1.5	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
1,1-Dichloroethene	<1.9		1.9	0.67	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
1,2-Dichloropropane	<1.9		1.9	0.50	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
1,3-Dichloropropene, Total	<1.9		1.9	0.68	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Ethylbenzene	<1.9		1.9	0.93	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
2-Hexanone	<4.8		4.8	1.5	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Methylene Chloride	<4.8		4.8	1.9	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Methyl Ethyl Ketone	<4.8		4.8	2.1	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
methyl isobutyl ketone	<4.8		4.8	1.4	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Methyl tert-butyl ether	<1.9		1.9	0.57	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Styrene	<1.9		1.9	0.58	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.62	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Tetrachloroethene	<1.9		1.9	0.66	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Toluene	<1.9		1.9	0.49	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
trans-1,2-Dichloroethene	<1.9		1.9	0.86	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
trans-1,3-Dichloropropene	<1.9		1.9	0.68	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
1,1,1-Trichloroethane	<1.9		1.9	0.65	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
1,1,2-Trichloroethane	<1.9		1.9	0.83	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Trichloroethene	<1.9		1.9	0.65	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Vinyl chloride	<1.9		1.9	0.86	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1
Xylenes, Total	<3.9		3.9	0.62	ug/Kg	☼	02/11/17 14:38	02/15/17 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 120*	*02/11/17 14:38*	*02/15/17 17:17*	*1*
Dibromofluoromethane	*97*		*75 - 120*	*02/11/17 14:38*	*02/15/17 17:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*69 - 134*	*02/11/17 14:38*	*02/15/17 17:17*	*1*
Toluene-d8 (Surr)	*109*		*75 - 123*	*02/11/17 14:38*	*02/15/17 17:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	44	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
1,3-Dichlorobenzene	<200		200	46	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1

Client Sample ID: A31-2(0-1)-021017
Date Collected: 02/10/17 11:10
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123757-11
Matrix: Solid
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
2,4-Dinitrophenol	<820		820	710	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
2,6-Dinitrotoluene	<200		200	80	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
2-Methylnaphthalene	**24**	**J**	82	7.4	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
2-Methylphenol	<200		200	65	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
2-Nitrophenol	<400		400	96	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
3 & 4 Methylphenol	<200		200	68	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
3,3'-Dichlorobenzidine	<200	*	200	57	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
3-Nitroaniline	<400		400	130	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
4,6-Dinitro-2-methylphenol	<820		820	330	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
4-Nitrophenol	<820		820	390	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Acenaphthene	<40		40	7.3	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Anthracene	**9.9**	**J**	40	6.8	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Benzo[a]anthracene	**55**	*****	40	5.4	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Benzo[a]pyrene	**54**	*****	40	7.8	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Benzo[b]fluoranthene	**110**	*****	40	8.7	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Benzo[g,h,i]perylene	**52**	*****	40	13	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Benzo[k]fluoranthene	**30**	**J ***	40	12	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Bis(2-chloroethyl)ether	<200		200	61	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Bis(2-ethylhexyl) phthalate	<200	*	200	74	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Butyl benzyl phthalate	<200	*	200	77	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Carbazole	<200	*	200	100	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Chrysene	**73**	*****	40	11	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Dibenz(a,h)anthracene	<40	*	40	7.8	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Dibenzofuran	<200		200	47	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Diethyl phthalate	<200		200	69	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Di-n-butyl phthalate	<200		200	62	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Fluoranthene	**87**		40	7.5	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Fluorene	<40		40	5.7	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Hexachlorobenzene	<82		82	9.4	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Hexachlorobutadiene	<200		200	64	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Hexachloroethane	<200		200	62	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1

Client Sample ID: A31-2(0-1)-021017
Date Collected: 02/10/17 11:10
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123757-11
Matrix: Solid
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**27**	**J ***	40	10	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Isophorone	<200		200	45	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Naphthalene	**13**	**J**	40	6.2	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Nitrobenzene	<40		40	10	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
N-Nitrosodi-n-propylamine	<82		82	49	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Pentachlorophenol	<820		820	650	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Phenanthrene	**77**		40	5.6	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Phenol	<200		200	90	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1
Pyrene	**180**	*****	40	8.0	ug/Kg	☼	02/16/17 06:59	02/20/17 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*108*		*25 - 130*	*02/16/17 06:59*	*02/20/17 17:31*	*1*
2-Fluorobiphenyl	*93*		*42 - 115*	*02/16/17 06:59*	*02/20/17 17:31*	*1*
2-Fluorophenol	*94*		*40 - 130*	*02/16/17 06:59*	*02/20/17 17:31*	*1*
Nitrobenzene-d5	*84*		*33 - 124*	*02/16/17 06:59*	*02/20/17 17:31*	*1*
Phenol-d5	*94*		*36 - 123*	*02/16/17 06:59*	*02/20/17 17:31*	*1*
Terphenyl-d14	*200*	*X **	*25 - 150*	*02/16/17 06:59*	*02/20/17 17:31*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/16/17 08:50	02/16/17 18:38	1
Barium	**0.41**	**J**	0.50	0.050	mg/L		02/16/17 08:50	02/16/17 18:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/17 08:50	02/16/17 18:38	1
Cadmium	**0.0020**	**J**	0.0050	0.0020	mg/L		02/16/17 08:50	02/16/17 18:38	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 18:38	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 18:38	1
Copper	<0.025		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 18:38	1
Iron	<0.40		0.40	0.20	mg/L		02/16/17 08:50	02/16/17 18:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/17 08:50	02/16/17 18:38	1
Manganese	**0.89**		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 18:38	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 18:38	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 08:50	02/16/17 18:38	1
Silver	<0.025		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 18:38	1
Zinc	**0.071**	**J**	0.50	0.020	mg/L		02/16/17 08:50	02/17/17 18:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.053**		0.050	0.010	mg/L		02/16/17 14:03	02/18/17 18:51	1
Barium	**0.69**		0.50	0.050	mg/L		02/16/17 14:03	02/18/17 18:51	1
Beryllium	**0.0067**		0.0040	0.0040	mg/L		02/16/17 14:03	02/18/17 18:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/17 14:03	02/18/17 18:51	1
Chromium	**0.17**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:51	1
Cobalt	**0.039**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:51	1
Copper	**0.18**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:51	1
Iron	**160**		0.40	0.20	mg/L		02/16/17 14:03	02/18/17 18:51	1
Lead	**0.25**		0.0075	0.0075	mg/L		02/16/17 14:03	02/18/17 18:51	1
Manganese	**0.67**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:51	1
Nickel	**0.17**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:51	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 14:03	02/18/17 18:51	1

Client Sample ID: A31-2(0-1)-021017
Date Collected: 02/10/17 11:10
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123757-11
Matrix: Solid
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:51	1
Zinc	**0.85**		0.50	0.020	mg/L		02/16/17 14:03	02/18/17 18:51	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Arsenic	**6.6**		0.61	0.28	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Barium	**81**		0.61	0.11	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Beryllium	**0.66**		0.25	0.053	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Cadmium	**0.43**		0.12	0.036	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Calcium	**17000**		12	4.0	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Chromium	**14**		0.61	0.11	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Cobalt	**10**		0.31	0.069	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Copper	**21**		0.61	0.13	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Iron	**17000**		12	4.7	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Lead	**75**		0.31	0.15	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Magnesium	**12000**	**B**	6.1	2.5	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Manganese	**430**		0.61	0.12	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Nickel	**23**		0.61	0.17	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Potassium	**1200**		31	5.0	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Selenium	**0.61**		0.61	0.30	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Sodium	**1900**		61	8.1	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Vanadium	**19**		0.31	0.090	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1
Zinc	**110**		1.2	0.39	mg/Kg	☼	02/16/17 15:03	02/17/17 17:58	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/16/17 12:45	02/17/17 10:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/16/17 12:45	02/17/17 10:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**44**		19	9.9	ug/Kg	☼	02/14/17 14:30	02/15/17 10:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.8**		0.2	0.2	SU			02/17/17 16:03	1

Client Sample ID: A31-3(0-1)-021017
Date Collected: 02/10/17 11:40
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123757-12
Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<18		18	7.8	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Benzene	<1.8		1.8	0.46	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Bromodichloromethane	<1.8		1.8	0.36	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Bromoform	<1.8		1.8	0.52	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Bromomethane	<4.5		4.5	1.7	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Carbon disulfide	<4.5		4.5	0.93	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Carbon tetrachloride	<1.8		1.8	0.52	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Chlorobenzene	<1.8		1.8	0.66	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Chloroethane	<4.5	*	4.5	1.3	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Chloroform	<1.8		1.8	0.62	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Chloromethane	<4.5		4.5	1.8	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
cis-1,2-Dichloroethene	<1.8		1.8	0.50	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
cis-1,3-Dichloropropene	<1.8		1.8	0.54	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Dibromochloromethane	<1.8		1.8	0.59	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
1,1-Dichloroethane	<1.8		1.8	0.61	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
1,2-Dichloroethane	<4.5		4.5	1.4	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
1,1-Dichloroethene	<1.8		1.8	0.62	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
1,2-Dichloropropane	<1.8		1.8	0.46	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
1,3-Dichloropropene, Total	<1.8		1.8	0.63	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Ethylbenzene	<1.8		1.8	0.86	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
2-Hexanone	<4.5		4.5	1.4	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Methylene Chloride	<4.5		4.5	1.8	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Methyl Ethyl Ketone	<4.5		4.5	2.0	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
methyl isobutyl ketone	<4.5		4.5	1.3	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Methyl tert-butyl ether	<1.8		1.8	0.53	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Styrene	<1.8		1.8	0.54	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.57	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Tetrachloroethene	<1.8		1.8	0.61	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Toluene	<1.8		1.8	0.45	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
trans-1,2-Dichloroethene	<1.8		1.8	0.79	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
trans-1,3-Dichloropropene	<1.8		1.8	0.63	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
1,1,1-Trichloroethane	<1.8		1.8	0.60	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
1,1,2-Trichloroethane	<1.8		1.8	0.77	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Trichloroethene	<1.8		1.8	0.61	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Vinyl chloride	<1.8		1.8	0.79	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1
Xylenes, Total	<3.6		3.6	0.57	ug/Kg	☼	02/11/17 14:38	02/16/17 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 120*	*02/11/17 14:38*	*02/16/17 15:42*	*1*
Dibromofluoromethane	*99*		*75 - 120*	*02/11/17 14:38*	*02/16/17 15:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*69 - 134*	*02/11/17 14:38*	*02/16/17 15:42*	*1*
Toluene-d8 (Surr)	*108*		*75 - 123*	*02/11/17 14:38*	*02/16/17 15:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123757-1

Client Sample ID: A31-3(0-1)-021017
Date Collected: 02/10/17 11:40
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123757-12
Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	91	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
2,4-Dinitrophenol	<810		810	700	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
2-Methylnaphthalene	<81		81	7.4	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
2-Methylphenol	<200		200	64	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
4,6-Dinitro-2-methylphenol	<810		810	320	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Anthracene	<40		40	6.7	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Benzo[a]anthracene	**9.5**	**J**	40	5.4	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Benzo[a]pyrene	**17**	**J ***	40	7.7	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Benzo[b]fluoranthene	**25**	**J ***	40	8.6	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Benzo[g,h,i]perylene	<40	*	40	13	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Benzo[k]fluoranthene	<40	*	40	12	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Carbazole	<200	*	200	100	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Chrysene	**14**	**J**	40	11	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Dibenz(a,h)anthracene	<40	*	40	7.7	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Dibenzofuran	<200		200	47	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Fluoranthene	**22**	**J**	40	7.4	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Fluorene	<40		40	5.6	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Hexachloroethane	<200		200	61	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1

Client Sample ID: A31-3(0-1)-021017
Date Collected: 02/10/17 11:40
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123757-12
Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<40	*	40	10	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Isophorone	<200		200	45	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Naphthalene	<40		40	6.2	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Nitrobenzene	<40		40	10	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
N-Nitrosodi-n-propylamine	<81		81	49	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Pentachlorophenol	<810		810	640	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Phenanthrene	**16**	**J**	40	5.6	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Phenol	<200		200	89	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1
Pyrene	**22**	**J**	40	7.9	ug/Kg	☼	02/16/17 06:59	02/17/17 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*74*		*25 - 130*	*02/16/17 06:59*	*02/17/17 12:47*	*1*
2-Fluorobiphenyl	*94*		*42 - 115*	*02/16/17 06:59*	*02/17/17 12:47*	*1*
2-Fluorophenol	*104*		*40 - 130*	*02/16/17 06:59*	*02/17/17 12:47*	*1*
Nitrobenzene-d5	*105*		*33 - 124*	*02/16/17 06:59*	*02/17/17 12:47*	*1*
Phenol-d5	*105*		*36 - 123*	*02/16/17 06:59*	*02/17/17 12:47*	*1*
Terphenyl-d14	*109*		*25 - 150*	*02/16/17 06:59*	*02/17/17 12:47*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/16/17 08:50	02/16/17 18:47	1
Barium	**0.28**	**J**	0.50	0.050	mg/L		02/16/17 08:50	02/16/17 18:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/17 08:50	02/16/17 18:47	1
Cadmium	**0.0022**	**J**	0.0050	0.0020	mg/L		02/16/17 08:50	02/16/17 18:47	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 18:47	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 18:47	1
Copper	**0.013**	**J**	0.025	0.010	mg/L		02/16/17 08:50	02/16/17 18:47	1
Iron	<0.40		0.40	0.20	mg/L		02/16/17 08:50	02/16/17 18:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/17 08:50	02/16/17 18:47	1
Manganese	**0.63**		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 18:47	1
Nickel	**0.011**	**J**	0.025	0.010	mg/L		02/16/17 08:50	02/16/17 18:47	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 08:50	02/16/17 18:47	1
Silver	<0.025		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 18:47	1
Zinc	**0.041**	**J**	0.50	0.020	mg/L		02/16/17 08:50	02/17/17 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.065**		0.050	0.010	mg/L		02/16/17 14:03	02/18/17 18:55	1
Barium	**0.51**		0.50	0.050	mg/L		02/16/17 14:03	02/18/17 18:55	1
Beryllium	**0.0078**		0.0040	0.0040	mg/L		02/16/17 14:03	02/18/17 18:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/17 14:03	02/18/17 18:55	1
Chromium	**0.19**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:55	1
Cobalt	**0.061**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:55	1
Copper	**0.20**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:55	1
Iron	**180**		0.40	0.20	mg/L		02/16/17 14:03	02/18/17 18:55	1
Lead	**0.44**		0.0075	0.0075	mg/L		02/16/17 14:03	02/18/17 18:55	1
Manganese	**1.2**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:55	1
Nickel	**0.20**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:55	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 14:03	02/18/17 18:55	1

Client Sample ID: A31-3(0-1)-021017
Date Collected: 02/10/17 11:40
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123757-12
Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:55	1
Zinc	**0.64**		0.50	0.020	mg/L		02/16/17 14:03	02/18/17 18:55	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Arsenic	**6.6**		0.57	0.26	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Barium	**46**		0.57	0.10	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Beryllium	**0.54**		0.23	0.049	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Cadmium	**0.21**		0.11	0.033	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Calcium	**26000**		11	3.7	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Chromium	**14**		0.57	0.098	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Cobalt	**12**		0.29	0.064	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Copper	**16**		0.57	0.12	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Iron	**16000**		11	4.4	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Lead	**81**		0.29	0.14	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Magnesium	**18000**	**B**	5.7	2.3	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Manganese	**470**		0.57	0.11	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Nickel	**20**		0.57	0.15	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Potassium	**1000**		29	4.7	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Selenium	**0.62**		0.57	0.28	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Sodium	**1900**		57	7.5	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Vanadium	**17**		0.29	0.083	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1
Zinc	**60**		1.1	0.36	mg/Kg	☼	02/16/17 15:03	02/17/17 18:05	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/16/17 12:45	02/17/17 10:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/16/17 12:45	02/17/17 11:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**33**		20	10	ug/Kg	☼	02/14/17 14:30	02/15/17 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.1**		0.2	0.2	SU			02/17/17 16:05	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside 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.
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.
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
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)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123757-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123757

Chain of Custody Number:

Page 4 of 5

Temperature °C of Cooler: 2.3, 1.8, 0.6, 0.2, 0.8, 3.7

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher / IL
Lab Project #:
Sampler: JB
Lab PM: Dixon Wright

Preservative:
Parameter:

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH
1		A38-6(0-1)-021017	2/10/17	08:30	6	SO					
2		A38-7(0-1)-021017		08:45							
3		A38-7(0-1)-021017D		08:45							
4		A38-8(0-1)-021017		09:00							
5		A38-9(0-1)-021017		09:15							
6		A38-10(0-1)-021017		09:30							
7		A38-11(0-1)-021017		09:40							
8		A38-12(0-1)-021017		10:30							
9		R37-1(0-1)-021017		10:40							
10		A31-1(0-1)-021017		10:55							

500-123757 COC

9. Other

Comments

've Key
4°
to 4°
to 4°
to 4°
ool to 4°

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/10/17	1630	[signature]	TBHD	02/10/17	1630
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered ✓

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-123757
Chain of Custody Number:
Page 5 of 5
Temperature °C of Cooler: 1.8 D.670.2,08,3.7,23

Report To (optional)	Bill To (optional)
Contact: S, Babusubramac	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address:
Phone: 224-904-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher / IL
Lab Project #:
Sampler: [illegible] JB
Lab PM: Dick Wright

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH	Comments
11		A31-2(0-1)-021017	2/10/17	11:10	6	SO							
12		A31-3(0-1)-021017		11:40									
13		A31-4(0-1)-021017		12:00									
14		A31-5(0-1)-021017		12:45									
15		A31-6(0-1)-021017		13:00									
16		A31-7(0-1)-021017		13:15									
17		A31-8(0-1)-021017		~~13:25~~ 14:00									
18		R34-1(0-1)-021017		13:35									
19		S32-1(0-1)-021017		13:45									
20		S32-2(0-1)-021017		14:00									

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date:

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/10/17	1630	[signature]	TALHI	02/10/17	1630
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier:
Shipped:
Hand Delivered: X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

2/21/2017

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: 500-123758-1
Client Project/Site: IDOT - Illinois Route 1 - WO 053

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
2/21/2017 1:38:24 PM

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

Client Sample ID: A31-14(0-1)-021017
Date Collected: 02/10/17 10:55
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-9
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<17		17	7.5	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Benzene	<1.7		1.7	0.44	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Bromoform	<1.7		1.7	0.51	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Bromomethane	<4.3		4.3	1.6	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Carbon disulfide	<4.3		4.3	0.90	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Carbon tetrachloride	<1.7		1.7	0.50	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Chlorobenzene	<1.7		1.7	0.64	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Chloroethane	<4.3		4.3	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Chloroform	<1.7		1.7	0.60	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Chloromethane	<4.3		4.3	1.7	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
cis-1,2-Dichloroethene	<1.7		1.7	0.48	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
cis-1,3-Dichloropropene	<1.7		1.7	0.52	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Dibromochloromethane	<1.7		1.7	0.57	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
1,1-Dichloroethane	<1.7		1.7	0.59	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
1,2-Dichloroethane	<4.3		4.3	1.4	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
1,1-Dichloroethene	<1.7		1.7	0.60	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
1,2-Dichloropropane	<1.7		1.7	0.45	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
1,3-Dichloropropene, Total	<1.7		1.7	0.61	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Ethylbenzene	<1.7		1.7	0.83	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
2-Hexanone	<4.3		4.3	1.4	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Methylene Chloride	<4.3		4.3	1.7	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Methyl Ethyl Ketone	<4.3		4.3	1.9	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
methyl isobutyl ketone	<4.3		4.3	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Methyl tert-butyl ether	<1.7		1.7	0.51	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Styrene	<1.7		1.7	0.52	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.55	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Tetrachloroethene	<1.7		1.7	0.59	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Toluene	<1.7		1.7	0.44	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
trans-1,2-Dichloroethene	<1.7		1.7	0.77	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
trans-1,3-Dichloropropene	<1.7		1.7	0.61	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
1,1,1-Trichloroethane	<1.7		1.7	0.58	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
1,1,2-Trichloroethane	<1.7		1.7	0.74	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Trichloroethene	<1.7		1.7	0.59	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Vinyl chloride	<1.7		1.7	0.77	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1
Xylenes, Total	<3.5		3.5	0.55	ug/Kg	☼	02/11/17 14:38	02/14/17 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 120*	*02/11/17 14:38*	*02/14/17 16:10*	*1*
Dibromofluoromethane	*98*		*75 - 120*	*02/11/17 14:38*	*02/14/17 16:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*69 - 134*	*02/11/17 14:38*	*02/14/17 16:10*	*1*
Toluene-d8 (Surr)	*107*		*75 - 123*	*02/11/17 14:38*	*02/14/17 16:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1

Client Sample ID: A31-14(0-1)-021017
Date Collected: 02/10/17 10:55
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-9
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
2-Methylnaphthalene	<75		75	6.8	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
2-Methylphenol	<190		190	59	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Acenaphthene	**13**	**J**	37	6.6	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Acenaphthylene	**5.3**	**J**	37	4.9	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Anthracene	**29**	**J**	37	6.2	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Benzo[a]anthracene	**140**		37	5.0	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Benzo[a]pyrene	**150**	*	37	7.2	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Benzo[b]fluoranthene	**210**	*	37	8.0	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Benzo[g,h,i]perylene	**96**	*	37	12	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Benzo[k]fluoranthene	**200**	*	37	11	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Bis(2-ethylhexyl) phthalate	**93**	**J**	190	68	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Carbazole	<190	*	190	92	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Chrysene	**170**		37	10	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Dibenz(a,h)anthracene	<37	*	37	7.1	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Dibenzofuran	<190		190	43	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Fluoranthene	**310**		37	6.9	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Fluorene	**12**	**J**	37	5.2	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Hexachloroethane	<190		190	56	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1

Client Sample ID: A31-14(0-1)-021017
Date Collected: 02/10/17 10:55
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-9
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**74**	*	37	9.6	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Isophorone	<190		190	42	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Naphthalene	**5.8**	J	37	5.7	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Phenanthrene	**150**		37	5.2	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Phenol	<190		190	82	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1
Pyrene	**360**		37	7.3	ug/Kg	☼	02/16/17 07:05	02/17/17 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*25 - 130*	*02/16/17 07:05*	*02/17/17 16:52*	*1*
2-Fluorobiphenyl	*93*		*42 - 115*	*02/16/17 07:05*	*02/17/17 16:52*	*1*
2-Fluorophenol	*79*		*40 - 130*	*02/16/17 07:05*	*02/17/17 16:52*	*1*
Nitrobenzene-d5	*76*		*33 - 124*	*02/16/17 07:05*	*02/17/17 16:52*	*1*
Phenol-d5	*72*		*36 - 123*	*02/16/17 07:05*	*02/17/17 16:52*	*1*
Terphenyl-d14	*119*		*25 - 150*	*02/16/17 07:05*	*02/17/17 16:52*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/17/17 14:00	02/18/17 17:36	1
Barium	**0.33**	J	0.50	0.050	mg/L		02/17/17 14:00	02/18/17 17:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/17 14:00	02/18/17 17:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/17 14:00	02/18/17 17:36	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:36	1
Cobalt	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:36	1
Copper	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:36	1
Iron	<0.40		0.40	0.20	mg/L		02/17/17 14:00	02/18/17 17:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/17 14:00	02/18/17 17:36	1
Manganese	**0.43**		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:36	1
Nickel	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:36	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/17 14:00	02/18/17 17:36	1
Silver	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:36	1
Zinc	**0.079**	J	0.50	0.020	mg/L		02/17/17 14:00	02/18/17 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.028**	J	0.050	0.010	mg/L		02/16/17 14:05	02/18/17 16:13	1
Barium	**0.47**	J	0.50	0.050	mg/L		02/16/17 14:05	02/18/17 16:13	1
Beryllium	**0.0050**		0.0040	0.0040	mg/L		02/16/17 14:05	02/18/17 16:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/17 14:05	02/18/17 16:13	1
Chromium	**0.13**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:13	1
Cobalt	**0.027**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:13	1
Copper	**0.13**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:13	1
Iron	**100**		0.40	0.20	mg/L		02/16/17 14:05	02/18/17 16:13	1
Lead	**0.24**		0.0075	0.0075	mg/L		02/16/17 14:05	02/18/17 16:13	1
Manganese	**0.51**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:13	1
Nickel	**0.11**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:13	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 14:05	02/18/17 16:13	1

Client Sample ID: A31-14(0-1)-021017
Date Collected: 02/10/17 10:55
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-9
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:13	1
Zinc	**0.49**	**J**	0.50	0.020	mg/L		02/16/17 14:05	02/18/17 16:13	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Arsenic	**5.3**		0.54	0.25	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Barium	**55**		0.54	0.10	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Beryllium	**0.64**		0.22	0.047	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Cadmium	**0.37**		0.11	0.032	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Calcium	**25000**	**B**	11	3.5	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Chromium	**21**		0.54	0.094	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Cobalt	**11**		0.27	0.062	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Copper	**26**		0.54	0.12	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Iron	**16000**	**B**	11	4.2	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Lead	**81**	**B**	0.27	0.14	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Magnesium	**18000**	**B**	5.4	2.2	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Manganese	**360**		0.54	0.11	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Nickel	**27**		0.54	0.15	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Potassium	**1600**		27	4.4	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Selenium	**0.42**	**J**	0.54	0.27	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Sodium	**1600**		54	7.2	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Vanadium	**18**		0.27	0.080	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1
Zinc	**100**	**B**	1.1	0.34	mg/Kg	☼	02/17/17 08:35	02/17/17 21:33	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/17/17 13:30	02/20/17 12:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/16/17 12:45	02/17/17 11:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**32**		17	9.0	ug/Kg	☼	02/15/17 16:00	02/16/17 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.3**		0.2	0.2	SU			02/18/17 09:58	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123758-1

Client Sample ID: A31-16(0-1)-021017
Date Collected: 02/10/17 11:45
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-12
Matrix: Solid
Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<20		20	8.9	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Benzene	<2.0		2.0	0.52	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Bromodichloromethane	<2.0		2.0	0.42	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Bromoform	<2.0		2.0	0.60	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Bromomethane	<5.1		5.1	1.9	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Carbon disulfide	<5.1		5.1	1.1	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Carbon tetrachloride	<2.0		2.0	0.59	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Chlorobenzene	<2.0		2.0	0.75	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Chloroethane	<5.1		5.1	1.5	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Chloroform	<2.0		2.0	0.71	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Chloromethane	<5.1		5.1	2.1	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
cis-1,2-Dichloroethene	<2.0		2.0	0.57	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
cis-1,3-Dichloropropene	<2.0		2.0	0.62	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Dibromochloromethane	<2.0		2.0	0.67	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
1,1-Dichloroethane	<2.0		2.0	0.70	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
1,2-Dichloroethane	<5.1		5.1	1.6	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
1,1-Dichloroethene	<2.0		2.0	0.70	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
1,2-Dichloropropane	<2.0		2.0	0.53	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
1,3-Dichloropropene, Total	<2.0		2.0	0.72	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Ethylbenzene	<2.0		2.0	0.98	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
2-Hexanone	<5.1		5.1	1.6	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Methylene Chloride	<5.1		5.1	2.0	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Methyl Ethyl Ketone	<5.1		5.1	2.3	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
methyl isobutyl ketone	<5.1		5.1	1.5	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Methyl tert-butyl ether	<2.0		2.0	0.60	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Styrene	<2.0		2.0	0.62	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.65	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Tetrachloroethene	<2.0		2.0	0.70	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Toluene	<2.0		2.0	0.52	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
trans-1,2-Dichloroethene	<2.0		2.0	0.91	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
trans-1,3-Dichloropropene	<2.0		2.0	0.72	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
1,1,1-Trichloroethane	<2.0		2.0	0.69	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
1,1,2-Trichloroethane	<2.0		2.0	0.88	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Trichloroethene	<2.0		2.0	0.69	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Vinyl chloride	<2.0		2.0	0.91	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1
Xylenes, Total	<4.1		4.1	0.65	ug/Kg	☼	02/11/17 14:38	02/14/17 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 120*	*02/11/17 14:38*	*02/14/17 17:24*	*1*
Dibromofluoromethane	*95*		*75 - 120*	*02/11/17 14:38*	*02/14/17 17:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*69 - 134*	*02/11/17 14:38*	*02/14/17 17:24*	*1*
Toluene-d8 (Surr)	*110*		*75 - 123*	*02/11/17 14:38*	*02/14/17 17:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1

Client Sample ID: A31-16(0-1)-021017
Date Collected: 02/10/17 11:45
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-12
Matrix: Solid
Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	83	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
2-Methylnaphthalene	**24**	**J**	73	6.7	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
2-Methylphenol	<180		180	58	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
3,3'-Dichlorobenzidine	<180	*	180	51	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Acenaphthene	**41**		36	6.5	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Acenaphthylene	**20**	**J**	36	4.8	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Anthracene	**120**		36	6.1	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Benzo[a]anthracene	**540**	*	36	4.9	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Benzo[a]pyrene	**620**	*	36	7.0	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Benzo[b]fluoranthene	**950**	*	36	7.8	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Benzo[g,h,i]perylene	**390**	*	36	12	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Benzo[k]fluoranthene	**530**	*	36	11	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Bis(2-ethylhexyl) phthalate	**210**	*	180	66	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Butyl benzyl phthalate	<180	*	180	69	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Carbazole	<180	*	180	91	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Chrysene	**670**	*	36	9.9	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Dibenz(a,h)anthracene	**61**	*	36	7.0	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Dibenzofuran	<180		180	43	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Fluoranthene	**1100**		36	6.7	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Fluorene	**43**		36	5.1	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Hexachloroethane	<180		180	55	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1

Client Sample ID: A31-16(0-1)-021017
Date Collected: 02/10/17 11:45
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-12
Matrix: Solid
Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**310**	*	36	9.4	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Isophorone	<180		180	41	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Naphthalene	**26**	J	36	5.6	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Phenanthrene	**580**		36	5.1	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Phenol	<180		180	81	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1
Pyrene	**1700**	*	36	7.2	ug/Kg	☼	02/16/17 07:05	02/17/17 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*113*		*25 - 130*	*02/16/17 07:05*	*02/17/17 17:45*	*1*
2-Fluorobiphenyl	*112*		*42 - 115*	*02/16/17 07:05*	*02/17/17 17:45*	*1*
2-Fluorophenol	*97*		*40 - 130*	*02/16/17 07:05*	*02/17/17 17:45*	*1*
Nitrobenzene-d5	*96*		*33 - 124*	*02/16/17 07:05*	*02/17/17 17:45*	*1*
Phenol-d5	*84*		*36 - 123*	*02/16/17 07:05*	*02/17/17 17:45*	*1*
Terphenyl-d14	*187*	*X *	*25 - 150*	*02/16/17 07:05*	*02/17/17 17:45*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/17/17 14:00	02/18/17 17:53	1
Barium	**0.35**	J	0.50	0.050	mg/L		02/17/17 14:00	02/18/17 17:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/17 14:00	02/18/17 17:53	1
Cadmium	**0.0027**	J	0.0050	0.0020	mg/L		02/17/17 14:00	02/18/17 17:53	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:53	1
Cobalt	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:53	1
Copper	**0.019**	J	0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:53	1
Iron	<0.40		0.40	0.20	mg/L		02/17/17 14:00	02/18/17 17:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/17 14:00	02/18/17 17:53	1
Manganese	**0.69**		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:53	1
Nickel	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:53	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/17 14:00	02/18/17 17:53	1
Silver	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:53	1
Zinc	**0.34**	J	0.50	0.020	mg/L		02/17/17 14:00	02/18/17 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/16/17 14:05	02/18/17 16:26	1
Barium	**0.067**	J	0.50	0.050	mg/L		02/16/17 14:05	02/18/17 16:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/17 14:05	02/18/17 16:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/17 14:05	02/18/17 16:26	1
Chromium	**0.026**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:26	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:26	1
Copper	**0.049**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:26	1
Iron	**8.4**		0.40	0.20	mg/L		02/16/17 14:05	02/18/17 16:26	1
Lead	**0.10**		0.0075	0.0075	mg/L		02/16/17 14:05	02/18/17 16:26	1
Manganese	**0.13**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:26	1
Nickel	**0.010**	J	0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:26	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 14:05	02/18/17 16:26	1

Client Sample ID: A31-16(0-1)-021017
Date Collected: 02/10/17 11:45
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-12
Matrix: Solid
Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:26	1
Zinc	**0.26**	**J**	0.50	0.020	mg/L		02/16/17 14:05	02/18/17 16:26	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.34**	**J**	0.93	0.19	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Arsenic	**1.7**		0.47	0.22	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Barium	**9.0**		0.47	0.085	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Beryllium	**0.083**	**J**	0.19	0.040	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Cadmium	**0.19**		0.093	0.027	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Calcium	**340000**	**B**	470	150	mg/Kg	☼	02/17/17 08:35	02/20/17 11:17	50
Chromium	**4.4**		0.47	0.080	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Cobalt	**1.4**		0.23	0.053	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Copper	**8.8**		0.47	0.10	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Iron	**2100**	**B**	9.3	3.6	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Lead	**15**	**B**	0.23	0.12	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Magnesium	**200000**	**B**	47	19	mg/Kg	☼	02/17/17 08:35	02/18/17 20:34	10
Manganese	**140**		0.47	0.092	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Nickel	**3.8**		0.47	0.13	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Potassium	**260**		23	3.8	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Selenium	<0.47		0.47	0.23	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Silver	<0.23		0.23	0.055	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Sodium	**400**		47	6.2	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Thallium	<0.47		0.47	0.23	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Vanadium	**2.1**		0.23	0.068	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1
Zinc	**32**	**B**	0.93	0.30	mg/Kg	☼	02/17/17 08:35	02/17/17 21:48	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/17/17 13:30	02/20/17 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/16/17 12:45	02/17/17 11:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**48**		18	9.5	ug/Kg	☼	02/15/17 16:00	02/16/17 12:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**		0.2	0.2	SU			02/18/17 10:05	1

Client Sample ID: A31-16(0-1)-021017D
Date Collected: 02/10/17 11:45
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-13
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<20		20	8.9	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Benzene	<2.0		2.0	0.52	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Bromodichloromethane	<2.0		2.0	0.41	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Bromoform	<2.0		2.0	0.59	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Bromomethane	<5.1		5.1	1.9	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Carbon disulfide	<5.1		5.1	1.1	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Carbon tetrachloride	<2.0		2.0	0.59	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Chlorobenzene	<2.0		2.0	0.75	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Chloroethane	<5.1		5.1	1.5	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Chloroform	<2.0		2.0	0.71	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Chloromethane	<5.1		5.1	2.0	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
cis-1,2-Dichloroethene	<2.0		2.0	0.57	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
cis-1,3-Dichloropropene	<2.0		2.0	0.61	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Dibromochloromethane	<2.0		2.0	0.66	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
1,1-Dichloroethane	<2.0		2.0	0.70	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
1,2-Dichloroethane	<5.1		5.1	1.6	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
1,1-Dichloroethene	<2.0		2.0	0.70	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
1,2-Dichloropropane	<2.0		2.0	0.53	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
1,3-Dichloropropene, Total	<2.0		2.0	0.71	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Ethylbenzene	<2.0		2.0	0.97	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
2-Hexanone	<5.1		5.1	1.6	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Methylene Chloride	<5.1		5.1	2.0	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Methyl Ethyl Ketone	<5.1		5.1	2.3	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
methyl isobutyl ketone	<5.1		5.1	1.5	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Methyl tert-butyl ether	<2.0		2.0	0.60	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Styrene	<2.0		2.0	0.61	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.65	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Tetrachloroethene	<2.0		2.0	0.69	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Toluene	<2.0		2.0	0.51	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
trans-1,2-Dichloroethene	<2.0		2.0	0.90	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
trans-1,3-Dichloropropene	<2.0		2.0	0.71	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
1,1,1-Trichloroethane	<2.0		2.0	0.68	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
1,1,2-Trichloroethane	<2.0		2.0	0.87	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Trichloroethene	<2.0		2.0	0.69	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Vinyl chloride	<2.0		2.0	0.90	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1
Xylenes, Total	<4.1		4.1	0.65	ug/Kg	☼	02/11/17 14:38	02/15/17 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 120*	*02/11/17 14:38*	*02/15/17 11:59*	*1*
Dibromofluoromethane	*95*		*75 - 120*	*02/11/17 14:38*	*02/15/17 11:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*69 - 134*	*02/11/17 14:38*	*02/15/17 11:59*	*1*
Toluene-d8 (Surr)	*112*		*75 - 123*	*02/11/17 14:38*	*02/15/17 11:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1

Client Sample ID: A31-16(0-1)-021017D
Date Collected: 02/10/17 11:45
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-13
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
2-Methylnaphthalene	**19**	**J**	76	6.9	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
2-Methylphenol	<190		190	60	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Acenaphthene	**38**		37	6.7	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Acenaphthylene	**21**	**J**	37	4.9	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Anthracene	**100**		37	6.3	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Benzo[a]anthracene	**490**	*****	37	5.0	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Benzo[a]pyrene	**590**	*****	37	7.3	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Benzo[b]fluoranthene	**1000**	*****	37	8.1	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Benzo[g,h,i]perylene	**340**	*****	37	12	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Benzo[k]fluoranthene	**330**	*****	37	11	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Bis(2-ethylhexyl) phthalate	**170**	**J ***	190	68	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Butyl benzyl phthalate	**100**	**J ***	190	71	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Carbazole	<190	*	190	94	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Chrysene	**630**	*****	37	10	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Dibenz(a,h)anthracene	**45**	*****	37	7.2	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Dibenzofuran	<190		190	44	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Fluoranthene	**850**		37	6.9	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Fluorene	**35**	**J**	37	5.3	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Hexachloroethane	<190		190	57	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1

Client Sample ID: A31-16(0-1)-021017D
Date Collected: 02/10/17 11:45
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-13
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**280**	*	37	9.7	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Isophorone	<190		190	42	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Naphthalene	**24**	J	37	5.8	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Phenanthrene	**480**		37	5.2	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Phenol	<190		190	83	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1
Pyrene	**1600**	*	37	7.4	ug/Kg	☼	02/16/17 07:05	02/17/17 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*99*		*25 - 130*	*02/16/17 07:05*	*02/17/17 22:12*	*1*
2-Fluorobiphenyl	*101*		*42 - 115*	*02/16/17 07:05*	*02/17/17 22:12*	*1*
2-Fluorophenol	*91*		*40 - 130*	*02/16/17 07:05*	*02/17/17 22:12*	*1*
Nitrobenzene-d5	*85*		*33 - 124*	*02/16/17 07:05*	*02/17/17 22:12*	*1*
Phenol-d5	*80*		*36 - 123*	*02/16/17 07:05*	*02/17/17 22:12*	*1*
Terphenyl-d14	*183*	*X *	*25 - 150*	*02/16/17 07:05*	*02/17/17 22:12*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/17/17 14:00	02/18/17 17:59	1
Barium	**0.35**	J	0.50	0.050	mg/L		02/17/17 14:00	02/18/17 17:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/17 14:00	02/18/17 17:59	1
Cadmium	**0.0031**	J	0.0050	0.0020	mg/L		02/17/17 14:00	02/18/17 17:59	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:59	1
Cobalt	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:59	1
Copper	**0.013**	J	0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:59	1
Iron	<0.40		0.40	0.20	mg/L		02/17/17 14:00	02/18/17 17:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/17 14:00	02/18/17 17:59	1
Manganese	**0.45**		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:59	1
Nickel	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:59	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/17 14:00	02/18/17 17:59	1
Silver	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:59	1
Zinc	**0.34**	J	0.50	0.020	mg/L		02/17/17 14:00	02/18/17 17:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/16/17 14:05	02/18/17 16:29	1
Barium	<0.50		0.50	0.050	mg/L		02/16/17 14:05	02/18/17 16:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/17 14:05	02/18/17 16:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/17 14:05	02/18/17 16:29	1
Chromium	**0.020**	J	0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:29	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:29	1
Copper	**0.027**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:29	1
Iron	**5.0**		0.40	0.20	mg/L		02/16/17 14:05	02/18/17 16:29	1
Lead	**0.069**		0.0075	0.0075	mg/L		02/16/17 14:05	02/18/17 16:29	1
Manganese	**0.085**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:29	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:29	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 14:05	02/18/17 16:29	1

Client Sample ID: A31-16(0-1)-021017D
Date Collected: 02/10/17 11:45
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-13
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:29	1
Zinc	**0.16**	**J**	0.50	0.020	mg/L		02/16/17 14:05	02/18/17 16:29	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.31**	**J**	1.1	0.23	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Arsenic	**2.7**		0.55	0.25	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Barium	**41**		0.55	0.10	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Beryllium	**0.23**		0.22	0.047	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Cadmium	**0.62**		0.11	0.032	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Calcium	**190000**	**B**	110	35	mg/Kg	☼	02/17/17 08:35	02/18/17 20:38	10
Chromium	**19**		0.55	0.094	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Cobalt	**3.4**		0.27	0.062	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Copper	**41**		0.55	0.12	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Iron	**8200**	**B**	11	4.2	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Lead	**140**	**B**	0.27	0.14	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Magnesium	**120000**	**B**	55	22	mg/Kg	☼	02/17/17 08:35	02/18/17 20:38	10
Manganese	**260**		0.55	0.11	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Nickel	**11**		0.55	0.15	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Potassium	**530**		27	4.5	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Sodium	**760**		55	7.2	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Vanadium	**8.2**		0.27	0.080	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1
Zinc	**190**	**B**	1.1	0.35	mg/Kg	☼	02/17/17 08:35	02/17/17 21:53	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/17/17 13:30	02/20/17 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/16/17 12:45	02/17/17 11:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**49**		19	10	ug/Kg	☼	02/15/17 16:00	02/16/17 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**		0.2	0.2	SU			02/18/17 10:07	1

Client Sample ID: A31-17(0-1)-021017
Date Collected: 02/10/17 12:00
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-14
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<19		19	8.2	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Benzene	<1.9		1.9	0.48	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Bromodichloromethane	<1.9		1.9	0.38	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Bromoform	<1.9		1.9	0.55	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Bromomethane	<4.7		4.7	1.8	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Carbon disulfide	<4.7		4.7	0.98	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Carbon tetrachloride	<1.9		1.9	0.55	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Chlorobenzene	<1.9		1.9	0.70	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Chloroethane	<4.7		4.7	1.4	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Chloroform	<1.9		1.9	0.66	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Chloromethane	<4.7		4.7	1.9	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
cis-1,2-Dichloroethene	<1.9		1.9	0.53	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
cis-1,3-Dichloropropene	<1.9		1.9	0.57	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Dibromochloromethane	<1.9		1.9	0.62	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
1,1-Dichloroethane	<1.9		1.9	0.65	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
1,2-Dichloroethane	<4.7		4.7	1.5	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
1,1-Dichloroethene	<1.9		1.9	0.65	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
1,2-Dichloropropane	<1.9		1.9	0.49	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
1,3-Dichloropropene, Total	<1.9		1.9	0.66	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Ethylbenzene	<1.9		1.9	0.90	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
2-Hexanone	<4.7		4.7	1.5	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Methylene Chloride	<4.7		4.7	1.9	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Methyl Ethyl Ketone	<4.7		4.7	2.1	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
methyl isobutyl ketone	<4.7		4.7	1.4	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Methyl tert-butyl ether	<1.9		1.9	0.55	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Styrene	<1.9		1.9	0.57	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.60	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Tetrachloroethene	<1.9		1.9	0.64	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Toluene	<1.9		1.9	0.48	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
trans-1,2-Dichloroethene	<1.9		1.9	0.84	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
trans-1,3-Dichloropropene	<1.9		1.9	0.66	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
1,1,1-Trichloroethane	<1.9		1.9	0.63	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
1,1,2-Trichloroethane	<1.9		1.9	0.81	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Trichloroethene	<1.9		1.9	0.64	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Vinyl chloride	<1.9		1.9	0.84	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1
Xylenes, Total	<3.8		3.8	0.60	ug/Kg	☼	02/11/17 14:38	02/14/17 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 120*	*02/11/17 14:38*	*02/14/17 18:13*	*1*
Dibromofluoromethane	*97*		*75 - 120*	*02/11/17 14:38*	*02/14/17 18:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*69 - 134*	*02/11/17 14:38*	*02/14/17 18:13*	*1*
Toluene-d8 (Surr)	*109*		*75 - 123*	*02/11/17 14:38*	*02/14/17 18:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1

Client Sample ID: A31-17(0-1)-021017
Date Collected: 02/10/17 12:00
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-14
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
2-Methylnaphthalene	**21**	**J**	80	7.3	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
2-Methylphenol	<200		200	63	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
3,3'-Dichlorobenzidine	<200	*	200	55	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Anthracene	**11**	**J**	39	6.6	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Benzo[a]anthracene	**55**	*****	39	5.3	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Benzo[a]pyrene	**55**	*****	39	7.6	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Benzo[b]fluoranthene	**83**	*****	39	8.5	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Benzo[g,h,i]perylene	**16**	**J ***	39	13	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Benzo[k]fluoranthene	**45**	*****	39	12	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Bis(2-ethylhexyl) phthalate	<200	*	200	72	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Butyl benzyl phthalate	<200	*	200	75	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Carbazole	<200	*	200	99	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Chrysene	**63**	*****	39	11	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Dibenz(a,h)anthracene	<39	*	39	7.6	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Dibenzofuran	<200		200	46	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Fluoranthene	**86**		39	7.3	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Fluorene	<39		39	5.6	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Hexachloroethane	<200		200	60	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1

Client Sample ID: A31-17(0-1)-021017
Date Collected: 02/10/17 12:00
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-14
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**20**	**J ***	39	10	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Isophorone	<200		200	44	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Naphthalene	**11**	**J**	39	6.1	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
N-Nitrosodi-n-propylamine	<80		80	48	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Pentachlorophenol	<800		800	630	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Phenanthrene	**92**		39	5.5	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Phenol	<200		200	88	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1
Pyrene	**140**	*****	39	7.8	ug/Kg	☼	02/16/17 07:05	02/17/17 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*90*		*25 - 130*	*02/16/17 07:05*	*02/17/17 18:12*	*1*
2-Fluorobiphenyl	*102*		*42 - 115*	*02/16/17 07:05*	*02/17/17 18:12*	*1*
2-Fluorophenol	*93*		*40 - 130*	*02/16/17 07:05*	*02/17/17 18:12*	*1*
Nitrobenzene-d5	*89*		*33 - 124*	*02/16/17 07:05*	*02/17/17 18:12*	*1*
Phenol-d5	*83*		*36 - 123*	*02/16/17 07:05*	*02/17/17 18:12*	*1*
Terphenyl-d14	*168*	*X **	*25 - 150*	*02/16/17 07:05*	*02/17/17 18:12*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/17/17 14:00	02/18/17 18:04	1
Barium	**0.39**	**J**	0.50	0.050	mg/L		02/17/17 14:00	02/18/17 18:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/17 14:00	02/18/17 18:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/17 14:00	02/18/17 18:04	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 18:04	1
Cobalt	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 18:04	1
Copper	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 18:04	1
Iron	<0.40		0.40	0.20	mg/L		02/17/17 14:00	02/18/17 18:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/17 14:00	02/18/17 18:04	1
Manganese	**0.27**		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 18:04	1
Nickel	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 18:04	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/17 14:00	02/18/17 18:04	1
Silver	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 18:04	1
Zinc	**0.13**	**J**	0.50	0.020	mg/L		02/17/17 14:00	02/18/17 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.044**	**J**	0.050	0.010	mg/L		02/16/17 14:05	02/18/17 16:32	1
Barium	**0.55**		0.50	0.050	mg/L		02/16/17 14:05	02/18/17 16:32	1
Beryllium	**0.0058**		0.0040	0.0040	mg/L		02/16/17 14:05	02/18/17 16:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/17 14:05	02/18/17 16:32	1
Chromium	**0.15**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:32	1
Cobalt	**0.038**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:32	1
Copper	**0.16**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:32	1
Iron	**140**		0.40	0.20	mg/L		02/16/17 14:05	02/18/17 16:32	1
Lead	**0.32**		0.0075	0.0075	mg/L		02/16/17 14:05	02/18/17 16:32	1
Manganese	**0.92**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:32	1
Nickel	**0.14**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:32	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 14:05	02/18/17 16:32	1

Client Sample ID: A31-17(0-1)-021017
Date Collected: 02/10/17 12:00
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-14
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:32	1
Zinc	**0.91**		0.50	0.020	mg/L		02/16/17 14:05	02/18/17 16:32	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Arsenic	**5.7**		0.58	0.27	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Barium	**72**		0.58	0.11	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Beryllium	**0.66**		0.23	0.050	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Cadmium	**0.30**		0.12	0.033	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Calcium	**23000**	**B**	12	3.7	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Chromium	**15**		0.58	0.099	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Cobalt	**9.1**		0.29	0.065	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Copper	**21**		0.58	0.12	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Iron	**17000**	**B**	12	4.4	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Lead	**53**	**B**	0.29	0.14	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Magnesium	**15000**	**B**	5.8	2.3	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Manganese	**370**		0.58	0.11	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Nickel	**24**		0.58	0.16	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Potassium	**1600**		29	4.7	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Sodium	**590**		58	7.6	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Vanadium	**19**		0.29	0.084	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1
Zinc	**100**	**B**	1.2	0.36	mg/Kg	☼	02/17/17 08:35	02/17/17 22:00	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/17/17 13:30	02/20/17 12:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/16/17 12:45	02/17/17 11:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**120**		19	10	ug/Kg	☼	02/15/17 16:00	02/16/17 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.7**		0.2	0.2	SU			02/18/17 10:09	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123758-1

Client Sample ID: A31-21(0-1)-021017
Date Collected: 02/10/17 13:15
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-18
Matrix: Solid
Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<26		26	11	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Benzene	<2.6		2.6	0.65	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Bromodichloromethane	<2.6		2.6	0.52	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Bromoform	<2.6		2.6	0.75	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Bromomethane	<6.4		6.4	2.4	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Carbon disulfide	<6.4		6.4	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Carbon tetrachloride	<2.6		2.6	0.74	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Chlorobenzene	<2.6		2.6	0.95	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Chloroethane	<6.4		6.4	1.9	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Chloroform	<2.6		2.6	0.89	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Chloromethane	<6.4		6.4	2.6	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
cis-1,2-Dichloroethene	<2.6		2.6	0.72	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
cis-1,3-Dichloropropene	<2.6		2.6	0.77	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Dibromochloromethane	<2.6		2.6	0.84	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
1,1-Dichloroethane	<2.6		2.6	0.88	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
1,2-Dichloroethane	<6.4		6.4	2.0	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
1,1-Dichloroethene	<2.6		2.6	0.88	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
1,2-Dichloropropane	<2.6		2.6	0.66	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
1,3-Dichloropropene, Total	<2.6		2.6	0.90	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Ethylbenzene	<2.6		2.6	1.2	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
2-Hexanone	<6.4		6.4	2.0	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Methylene Chloride	<6.4		6.4	2.5	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Methyl Ethyl Ketone	<6.4		6.4	2.8	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
methyl isobutyl ketone	<6.4		6.4	1.9	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Methyl tert-butyl ether	<2.6		2.6	0.75	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Styrene	<2.6		2.6	0.78	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
1,1,2,2-Tetrachloroethane	<2.6		2.6	0.82	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Tetrachloroethene	<2.6		2.6	0.87	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Toluene	<2.6		2.6	0.65	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
trans-1,2-Dichloroethene	<2.6		2.6	1.1	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
trans-1,3-Dichloropropene	<2.6		2.6	0.90	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
1,1,1-Trichloroethane	<2.6		2.6	0.86	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
1,1,2-Trichloroethane	<2.6		2.6	1.1	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Trichloroethene	<2.6		2.6	0.87	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Vinyl chloride	<2.6		2.6	1.1	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1
Xylenes, Total	<5.1		5.1	0.82	ug/Kg	☼	02/11/17 14:38	02/14/17 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 120*	*02/11/17 14:38*	*02/14/17 19:53*	*1*
Dibromofluoromethane	*93*		*75 - 120*	*02/11/17 14:38*	*02/14/17 19:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*69 - 134*	*02/11/17 14:38*	*02/14/17 19:53*	*1*
Toluene-d8 (Surr)	*109*		*75 - 123*	*02/11/17 14:38*	*02/14/17 19:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1

Client Sample ID: A31-21(0-1)-021017
Date Collected: 02/10/17 13:15
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-18
Matrix: Solid
Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
2-Methylnaphthalene	<75		75	6.9	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
2-Methylphenol	<190		190	60	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Acenaphthene	**17**	**J**	37	6.7	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Anthracene	**37**		37	6.2	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Benzo[a]anthracene	**140**	*	37	5.0	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Benzo[a]pyrene	**140**	*	37	7.2	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Benzo[b]fluoranthene	**170**	*	37	8.1	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Benzo[g,h,i]perylene	**64**	*	37	12	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Benzo[k]fluoranthene	**120**	*	37	11	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Bis(2-ethylhexyl) phthalate	<190	*	190	68	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Butyl benzyl phthalate	<190	*	190	71	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Carbazole	<190	*	190	93	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Chrysene	**160**	*	37	10	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Dibenz(a,h)anthracene	**19**	**J ***	37	7.2	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Dibenzofuran	<190		190	44	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Fluoranthene	**260**		37	6.9	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Fluorene	**14**	**J**	37	5.2	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Hexachloroethane	<190		190	57	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1

Client Sample ID: A31-21(0-1)-021017
Date Collected: 02/10/17 13:15
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-18
Matrix: Solid
Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**41**	*	37	9.7	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Isophorone	<190		190	42	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Naphthalene	<37		37	5.7	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Phenanthrene	**170**		37	5.2	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Phenol	<190		190	83	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1
Pyrene	**430**	*	37	7.4	ug/Kg	☼	02/16/17 07:05	02/17/17 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*103*		*25 - 130*	*02/16/17 07:05*	*02/17/17 19:58*	*1*
2-Fluorobiphenyl	*109*		*42 - 115*	*02/16/17 07:05*	*02/17/17 19:58*	*1*
2-Fluorophenol	*97*		*40 - 130*	*02/16/17 07:05*	*02/17/17 19:58*	*1*
Nitrobenzene-d5	*88*		*33 - 124*	*02/16/17 07:05*	*02/17/17 19:58*	*1*
Phenol-d5	*89*		*36 - 123*	*02/16/17 07:05*	*02/17/17 19:58*	*1*
Terphenyl-d14	*182*	*X *	*25 - 150*	*02/16/17 07:05*	*02/17/17 19:58*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/17/17 14:00	02/18/17 18:27	1
Barium	**0.25**	**J**	0.50	0.050	mg/L		02/17/17 14:00	02/18/17 18:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/17 14:00	02/18/17 18:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/17 14:00	02/18/17 18:27	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 18:27	1
Cobalt	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 18:27	1
Copper	**0.015**	**J**	0.025	0.010	mg/L		02/17/17 14:00	02/18/17 18:27	1
Iron	<0.40		0.40	0.20	mg/L		02/17/17 14:00	02/18/17 18:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/17 14:00	02/18/17 18:27	1
Manganese	**0.048**		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 18:27	1
Nickel	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 18:27	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/17 14:00	02/18/17 18:27	1
Silver	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 18:27	1
Zinc	**0.080**	**J**	0.50	0.020	mg/L		02/17/17 14:00	02/18/17 18:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/16/17 14:05	02/18/17 16:54	1
Barium	<0.50		0.50	0.050	mg/L		02/16/17 14:05	02/18/17 16:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/17 14:05	02/18/17 16:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/17 14:05	02/18/17 16:54	1
Chromium	**0.010**	**J**	0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:54	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:54	1
Copper	**0.017**	**J**	0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:54	1
Iron	**5.9**		0.40	0.20	mg/L		02/16/17 14:05	02/18/17 16:54	1
Lead	**0.064**		0.0075	0.0075	mg/L		02/16/17 14:05	02/18/17 16:54	1
Manganese	**0.058**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:54	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:54	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 14:05	02/18/17 16:54	1

Client Sample ID: A31-21(0-1)-021017
Date Collected: 02/10/17 13:15
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-18
Matrix: Solid
Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:54	1
Zinc	**0.064**	**J**	0.50	0.020	mg/L		02/16/17 14:05	02/18/17 16:54	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Arsenic	**2.4**		0.50	0.23	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Barium	**24**		0.50	0.091	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Beryllium	**0.18**	**J**	0.20	0.043	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Cadmium	**0.30**		0.10	0.029	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Calcium	**240000**	**B**	100	32	mg/Kg	☼	02/17/17 08:35	02/18/17 20:50	10
Chromium	**6.5**		0.50	0.086	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Cobalt	**2.4**		0.25	0.056	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Copper	**13**		0.50	0.11	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Iron	**6600**	**B**	10	3.8	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Lead	**67**	**B**	0.25	0.12	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Magnesium	**150000**	**B**	50	20	mg/Kg	☼	02/17/17 08:35	02/18/17 20:50	10
Manganese	**170**		0.50	0.099	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Nickel	**7.3**		0.50	0.14	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Potassium	**500**		25	4.1	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Selenium	<0.50		0.50	0.25	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Sodium	**290**		50	6.6	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Vanadium	**4.6**		0.25	0.073	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1
Zinc	**71**	**B**	1.0	0.32	mg/Kg	☼	02/17/17 08:35	02/17/17 22:32	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/17/17 13:30	02/20/17 12:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/16/17 12:45	02/17/17 11:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**27**		17	9.1	ug/Kg	☼	02/15/17 16:00	02/16/17 13:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.4**		0.2	0.2	SU			02/18/17 10:18	1

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123758-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123758
Chain of Custody Number:
Page 1 of 5
Temperature °C of Cooler: 2.3 0.6-0.2, 0.8, 3.7, 1.8

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher IL
Lab Project #:
Sampler: A. Tuckast
Lab PM: Dick Weight

Preservative Key
1. HCL, Cool to 4°
2. H2SO4 Cool to 4°
p 4°
p 4°
pl to 4°

500-123758 COC

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH	Comments
1		A33-24(0-1)-021017	2/10/17	0845	6	S	X	X	X	X	X	
2		A33-24(0-1)-021017D		0845	6	S	X	X	X	X	X	
3		A33-25(0-1)-021017		0900	6	S	X	X	X	X	X	
4		A33-26(0-1)-021017		0915	6	S	X	X	X	X	X	
5		A31-11(0-1)-021017		1015	6	S	X	X	X	X	X	
6		R33-1(0-1)-021017		1023	6	S	X	X	X	X	X	
7		A31-12(0-1)-021017		1035	6	S	X	X	X	X	X	
8		A31-13(0-1)-021017		1043	6	S	X	X	X	X	X	
9		A31-14(0-1)-021017		1055	6	S	X	X	X	X	X	
10		A31-15(0-1)-021017	2/10/17	1110	6	S	X	X	X	X	X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	2/10/17	1630		TACAT	02/10/17	1630
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: S. Balasubramar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 200
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123758
Chain of Custody Number:
Page 2 of 5
Temperature °C of Cooler: 0.6, 0.0, 2.0, 1.8, 2.3, 3.7 AS 02/10/17

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher / IL
Lab Project #:
Sampler: A. Tuchasz
Lab PM: Dirk Weight

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP Metals	PH					Comments
11		F35-1(0-1)-021017	2/10/17	1120	6	S	X	X	X	X	X					
12		A31-16(0-1)-021017	↓	1145	6	S	X	X	X	X	X					
13		A31-16(0-1)-021017D	↓	1145	6	S	X	X	X	X	X					
14		A31-17(0-1)-021017	↓	1200	6	S	X	X	X	X	X					
15		A31-18(0-1)-021017	↓	1220	6	S	X	X	X	X	X					
16		A31-19 (0-1)-021017	↓	1235	6	S	X	X	X	X	X					
17		A31-20(0-1)-021017	↓	1255	6	S	X	X	X	X	X					
18		A31-21(0-1)-021017	↓	1315	6	S	X	X	X	X	X					
19		B36-1(0-1)-021017	↓	1325	6	S	X	X	X	X	X					
20		B36-2(0-1)-021017	2/10/17	1350	6	S	X	X	X	X	X					

Turnaround Time Required (Business Days)
__ 1 Day __ 2 Days __ 5 Days __ 7 Days __ 10 Days __ 15 Days Standard Other
Requested Due Date ______

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/10/17	1630	[signature]	TA-UP	02/10/17	1630

Lab Courier [ ]
Shipped [ ]
Hand Delivered [X]

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

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 332: IL Route 1 (Dixie Highway) Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
30546 S. Dixie Highway, (ISGS Site No. 3140-33)

City: Beecher State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.335428988 (Decimal Degrees) Longitude: -87.621406376 (-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 332: IL Route 1 (Dixie Highway)

Latitude: 41.335428988 Longitude: -87.621406376

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 R33-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 3140-33. SEE FIGURE 3-5 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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 - JOB ID: 500-123758-1.
ALSO SEE FIGURE 4-5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, Michael Castillo, 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: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

Michael Castillo, P.G.
Printed Name:

Michael A Castillo

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

29 March 2022

Date:

LICENSED PROFESSIONAL GEOLOGIST
MICHAEL A. CASTILLO
196.001276
ILLINOIS

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

Summary Table of ISGS Site No. 3140-33
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	R33-1(0-1)-021017	**Soil Reference Concentrations[A]**
Sample Date	2/10/2017	
Location ID	R33-1	
Depth	0 - 1	
ISGS Site No.	3140-33	
Parameter		
Laboratory pH (s.u.)	9.0	<6.25, >9.0
VOCs	None Detected	
SVOCs (ug/kg)		
Acenaphthylene	11 J	---
Anthracene	7.7 J	1.2E+07
Benzo(a)anthracene	36	900 / 1100 / 1800
Benzo(a)pyrene	56 J	90 / 1300 / 2100
Benzo(b)fluoranthene	100 J	900 / 1500 /2100
Benzo(g,h,i)perylene	25 J	---
Benzo(k)fluoranthene	40 J	9000
Chrysene	48	88000
Fluoranthene	67	3100000
Indeno(1,2,3-cd)pyrene	30 J	900 / 900 / 1600
Phenanthrene	36	
Pyrene	100	2300000
Total Metals (mg/kg)		
Antimony, Total	ND	5
Arsenic, Total	3.3	11.3 / 13.0
Barium, Total	45	1500
Beryllium, Total	0.54	22
Cadmium, Total	0.24	5.2
Calcium, Total	26000 B	---
Chromium, Total	13	21
Cobalt, Total	6.3	20
Copper, Total	16	2900
Iron, Total	11000 B	15000 / 15900
Lead, Total	97 B	107
Magnesium, Total	16000 B	325000
Manganese, Total	430	630 / 636
Mercury, Total	0.036	0.89
Nickel, Total	17	100
Potassium, Total	960	---
Selenium, Total	0.26 J	1.3
Silver, Total	ND	4.4
Sodium, Total	2100	---
Thallium, Total	ND	2.6
Vanadium, Total	15	550
Zinc, Total	53 B	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.23 J	2
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	0.0086	0.0075
Manganese, TCLP	3.1	0.15
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Zinc, TCLP	ND	5

Summary Table of ISGS Site No. 3140-33
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 332: Illinois Route 1 (Dixie Highway) from Goodenow Road to Church Road and Horner Lane to County Line Road
Beecher, Will County, Illinois

Field Sample ID	R33-1(0-1)-021017	**Soil Reference Concentrations[A]**
Sample Date	2/10/2017	
Location ID	R33-1	
Depth	0 - 1	
ISGS Site No.	3140-33	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.028 J	0.05
Barium, SPLP	0.32 J	2
Beryllium, SPLP	0.0049	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.13	0.1
Cobalt, SPLP	0.032	1
Copper, SPLP	0.12	0.65
Iron, SPLP	100	5
Lead, SPLP	0.46	0.0075
Manganese, SPLP	0.85	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.11	0.1
Zinc, SPLP	0.41 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for MSA counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

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: 500-123758-1
Client Project/Site: IDOT - Illinois Route 1 - WO 053

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
2/21/2017 1:38:24 PM

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

Client Sample ID: R33-1(0-1)-021017
Date Collected: 02/10/17 10:23
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-6
Matrix: Solid
Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<16		16	7.1	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Benzene	<1.6		1.6	0.41	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Bromodichloromethane	<1.6		1.6	0.33	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Bromoform	<1.6		1.6	0.47	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Bromomethane	<4.1		4.1	1.5	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Carbon disulfide	<4.1		4.1	0.84	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Carbon tetrachloride	<1.6		1.6	0.47	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Chlorobenzene	<1.6		1.6	0.60	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Chloroethane	<4.1		4.1	1.2	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Chloroform	<1.6		1.6	0.56	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Chloromethane	<4.1		4.1	1.6	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
cis-1,2-Dichloroethene	<1.6		1.6	0.45	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
cis-1,3-Dichloropropene	<1.6		1.6	0.49	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Dibromochloromethane	<1.6		1.6	0.53	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
1,1-Dichloroethane	<1.6		1.6	0.56	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
1,2-Dichloroethane	<4.1		4.1	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
1,1-Dichloroethene	<1.6		1.6	0.56	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
1,2-Dichloropropane	<1.6		1.6	0.42	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
1,3-Dichloropropene, Total	<1.6		1.6	0.57	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Ethylbenzene	<1.6		1.6	0.78	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
2-Hexanone	<4.1		4.1	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Methylene Chloride	<4.1		4.1	1.6	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Methyl Ethyl Ketone	<4.1		4.1	1.8	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
methyl isobutyl ketone	<4.1		4.1	1.2	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Methyl tert-butyl ether	<1.6		1.6	0.48	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Styrene	<1.6		1.6	0.49	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.52	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Tetrachloroethene	<1.6		1.6	0.55	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Toluene	<1.6		1.6	0.41	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
trans-1,2-Dichloroethene	<1.6		1.6	0.72	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
trans-1,3-Dichloropropene	<1.6		1.6	0.57	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
1,1,1-Trichloroethane	<1.6		1.6	0.54	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
1,1,2-Trichloroethane	<1.6		1.6	0.70	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Trichloroethene	<1.6		1.6	0.55	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Vinyl chloride	<1.6		1.6	0.72	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1
Xylenes, Total	<3.2		3.2	0.52	ug/Kg	☼	02/11/17 14:38	02/14/17 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 120*	*02/11/17 14:38*	*02/14/17 14:55*	*1*
Dibromofluoromethane	*99*		*75 - 120*	*02/11/17 14:38*	*02/14/17 14:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*69 - 134*	*02/11/17 14:38*	*02/14/17 14:55*	*1*
Toluene-d8 (Surr)	*111*		*75 - 123*	*02/11/17 14:38*	*02/14/17 14:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1

Client Sample ID: R33-1(0-1)-021017
Date Collected: 02/10/17 10:23
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-6
Matrix: Solid
Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	83	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
2-Methylnaphthalene	<73		73	6.7	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
2-Methylphenol	<180		180	58	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Acenaphthylene	**11**	**J**	36	4.8	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Anthracene	**7.7**	**J**	36	6.0	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Benzo[a]anthracene	**36**		36	4.9	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Benzo[a]pyrene	**56**	*****	36	7.0	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Benzo[b]fluoranthene	**100**	*****	36	7.8	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Benzo[g,h,i]perylene	**25**	**J ***	36	12	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Benzo[k]fluoranthene	**40**	*****	36	11	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Carbazole	<180	*	180	90	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Chrysene	**48**		36	9.9	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Dibenz(a,h)anthracene	<36	*	36	7.0	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Dibenzofuran	<180		180	42	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Fluoranthene	**67**		36	6.7	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Fluorene	<36		36	5.1	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Hexachloroethane	<180		180	55	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1

Client Sample ID: R33-1(0-1)-021017
Date Collected: 02/10/17 10:23
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-6
Matrix: Solid
Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**30**	**J ***	36	9.4	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Isophorone	<180		180	41	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Naphthalene	<36		36	5.6	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Phenanthrene	**36**		36	5.0	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Phenol	<180		180	80	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1
Pyrene	**100**		36	7.2	ug/Kg	☼	02/16/17 07:05	02/20/17 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*93*		*25 - 130*	*02/16/17 07:05*	*02/20/17 16:29*	*1*
2-Fluorobiphenyl	*95*		*42 - 115*	*02/16/17 07:05*	*02/20/17 16:29*	*1*
2-Fluorophenol	*103*		*40 - 130*	*02/16/17 07:05*	*02/20/17 16:29*	*1*
Nitrobenzene-d5	*82*		*33 - 124*	*02/16/17 07:05*	*02/20/17 16:29*	*1*
Phenol-d5	*94*		*36 - 123*	*02/16/17 07:05*	*02/20/17 16:29*	*1*
Terphenyl-d14	*162*	*X*	*25 - 150*	*02/16/17 07:05*	*02/20/17 16:29*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/17/17 14:00	02/18/17 17:14	1
Barium	**0.23**	**J**	0.50	0.050	mg/L		02/17/17 14:00	02/18/17 17:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/17 14:00	02/18/17 17:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/17 14:00	02/18/17 17:14	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:14	1
Cobalt	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:14	1
Copper	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:14	1
Iron	<0.40		0.40	0.20	mg/L		02/17/17 14:00	02/18/17 17:14	1
Lead	**0.0086**		0.0075	0.0075	mg/L		02/17/17 14:00	02/18/17 17:14	1
Manganese	**3.1**		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:14	1
Nickel	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:14	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/17 14:00	02/18/17 17:14	1
Silver	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:14	1
Zinc	<0.50		0.50	0.020	mg/L		02/17/17 14:00	02/18/17 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.028**	**J**	0.050	0.010	mg/L		02/16/17 14:05	02/18/17 15:55	1
Barium	**0.32**	**J**	0.50	0.050	mg/L		02/16/17 14:05	02/18/17 15:55	1
Beryllium	**0.0049**		0.0040	0.0040	mg/L		02/16/17 14:05	02/18/17 15:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/17 14:05	02/18/17 15:55	1
Chromium	**0.13**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:55	1
Cobalt	**0.032**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:55	1
Copper	**0.12**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:55	1
Iron	**100**		0.40	0.20	mg/L		02/16/17 14:05	02/18/17 15:55	1
Lead	**0.46**		0.0075	0.0075	mg/L		02/16/17 14:05	02/18/17 15:55	1
Manganese	**0.85**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:55	1
Nickel	**0.11**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:55	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 14:05	02/18/17 15:55	1

Client Sample ID: R33-1(0-1)-021017
Date Collected: 02/10/17 10:23
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-6
Matrix: Solid
Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:55	1
Zinc	**0.41**	**J**	0.50	0.020	mg/L		02/16/17 14:05	02/18/17 15:55	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Arsenic	**3.3**		0.53	0.25	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Barium	**45**		0.53	0.098	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Beryllium	**0.54**		0.21	0.046	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Cadmium	**0.24**		0.11	0.031	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Calcium	**26000**	**B**	11	3.4	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Chromium	**13**		0.53	0.092	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Cobalt	**6.3**		0.27	0.060	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Copper	**16**		0.53	0.12	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Iron	**11000**	**B**	11	4.1	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Lead	**97**	**B**	0.27	0.13	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Magnesium	**16000**	**B**	5.3	2.2	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Manganese	**430**		0.53	0.11	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Nickel	**17**		0.53	0.14	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Potassium	**960**		27	4.4	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Selenium	**0.26**	**J**	0.53	0.26	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Sodium	**2100**		53	7.0	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Vanadium	**15**		0.27	0.078	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1
Zinc	**53**	**B**	1.1	0.34	mg/Kg	☼	02/17/17 08:35	02/17/17 21:15	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/17/17 13:30	02/20/17 12:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		02/16/17 12:45	02/17/17 11:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**36**		17	9.0	ug/Kg	☼	02/15/17 16:00	02/16/17 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**		0.2	0.2	SU			02/18/17 09:50	1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.

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)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Illinois Route 1 - WO 053

TestAmerica Job ID: 500-123758-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123758
Chain of Custody Number:
Page 1 of 5
Temperature °C of Cooler: 2.3 0.6-0.2, 0.8, 3.7, 1.8

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher IL
Lab Project #:
Sampler: A. Tuckast
Lab PM: Dick Weight

Preservative Key
1. HCL, Cool to 4°
2. H2SO4 Cool to 4°
p 4°
p 4°
pl to 4°

500-123758 COC

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH	Comments
1		A33-24(0-1)-021017	2/10/17	0845	6	S	X	X	X	X	X	
2		A33-24(0-1)-021017D		0845	6	S	X	X	X	X	X	
3		A33-25(0-1)-021017		0900	6	S	X	X	X	X	X	
4		A33-26(0-1)-021017		0915	6	S	X	X	X	X	X	
5		A31-11(0-1)-021017		1015	6	S	X	X	X	X	X	
6		R33-1(0-1)-021017		1023	6	S	X	X	X	X	X	
7		A31-12(0-1)-021017		1035	6	S	X	X	X	X	X	
8		A31-13(0-1)-021017		1043	6	S	X	X	X	X	X	
9		A31-14(0-1)-021017		1055	6	S	X	X	X	X	X	
10		A31-15(0-1)-021017	2/10/17	1110	6	S	X	X	X	X	X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	2/10/17	1630		TACAT	02/10/17	1630
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: S. Balasubkumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-123758

Chain of Custody Number:

Page 2 of 5

Temperature °C of Cooler: 0.6 7.0, 2.0, 1.8, 2.3, 3.7 AS 02/10/17

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher / IL
Lab Project #:
Sampler: A. Tuchasz
Lab PM: Dirk Weight

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP / SPLP Metals	pH					Comments
11		F35-1(0-1)-021017	2/10/17	1120	6	S	X	X	X	X	X					
12		A31-16(0-1)-021017	↓	1145	6	S	X	X	X	X	X					
13		A31-16(0-1)-021017D	↓	1145	6	S	X	X	X	X	X					
14		A31-17(0-1)-021017	↓	1200	6	S	X	X	X	X	X					
15		A31-18(0-1)-021017	↓	1220	6	S	X	X	X	X	X					
16		A31-19 (0-1)-021017	↓	1235	6	S	X	X	X	X	X					
17		A31-20(0-1)-021017	↓	1255	6	S	X	X	X	X	X					
18		A31-21(0-1)-021017	↓	1315	6	S	X	X	X	X	X					
19		B36-1(0-1)-021017	↓	1325	6	S	X	X	X	X	X					
20		B36-2(0-1)-021017	2/10/17	1350	6	S	X	X	X	X	X					

Turnaround Time Required (Business Days)
__ 1 Day __ 2 Days __ 5 Days __ 7 Days __ 10 Days __ 15 Days Standard Other
Requested Due Date ______

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	2/10/17	1630	[signature]	TAL-UP	02/10/17	1630

Lab Courier [ ]
Shipped [ ]
Hand Delivered [X]

Matrix Key
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Client Comments

Lab Comments:

TAL-4124-500 (1208)